TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

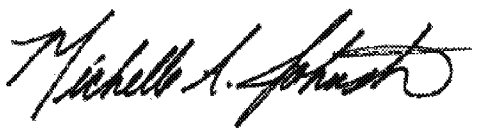
ANALYTICAL REPORT

Job Number: 280-106036-1

Job Description: FAY-2018 Residential Sampling

For:
Chemours Company FC, LLC The
c/o AECOM
Sabre Building, Suite 300
4051 Ogletown Road
Newark, DE 19713

Attention: Michael Aucoin



Approved for release.
Michelle A Johnston
Project Manager II
4/2/2018 11:58 AM

Michelle A Johnston, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0110
michelle.johnston@testamericainc.com
04/02/2018
Revision: 2

cc: Barbara McGraw
Kelly Rinehimer

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE
Client: The Chemours Company FC, LLC
Project: FAY-2018 Residential Sampling
Report Number: 280-106036-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet project requirements at the request of the client and to report the lowest possible RL for each analyte.

Revision - 4/2/2018
The certificates for laboratory samples 280-106036-3 through 280-106036-18 were revised to list the correct MS/REP information.

Revision - 3/29/2018
The report was revised to change several sample IDs in accordance with the revised chains of custodies. The following samples were revised:

FAY-D-7646TABOR-W1-02018 (280-106036-12) changed to FAY-D-7646TABOR-W1-1-020118
FAY-D-4059SPNSH-W1-1-020118 (280-106036-23) changed to FAY-D-4057SPNSH-W1-1-020118
FAY-D-6916CHKFT-W1-1-020118 (280-106036-27) changed to FAY-D-6416CHKFT-W1-1-020118
FAY-D-4059SPNSH-W1-2-020118 (280-106036-40) changed to FAY-D-4057SPNSH-W1-2-020118

Receipt
The samples were received on 2/2/2018 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.5° C, 0.6° C, 0.8° C, 0.9° C and 1.6° C.

Receipt Exceptions
The requested analyses were logged on a 15 business day turn around time due to current laboratory capacity.

The sample collection time of the REP laboratory QC volume associated with parent sample FAY-D-6476TABOR-W1-1-020118 (280-106036-2) listed on the chain of custody does not match the collection time of the parent sample. The laboratory logged the collection time of the REP laboratory QC volume equivalent to the parent sample per standard laboratory practice. The client was notified on 2/5/2018.

There was no sample collection date listed on the chain of custody for the REP laboratory QC sample volume received associated with parent sample FAY-D-5049MATTH-W1-1-020118 (280-106036-11). The laboratory logged the sample collection date of the REP laboratory QC sample volume per the container labels and equivalent to the parent sample per standard laboratory practice. The client was notified on 2/5/2018.

There was no sample collection date listed on the chain of custody for sample FAY-D-7646TABOR-W1-02018 (280-106036-12). The laboratory logged the sample collection date per the information on the container labels of this sample. The client was notified on 2/5/2018.

The following samples were received but not listed on the chain of custody: FAY-D-5049MATTH-W1-1-020118-D (280-106036-31), FAY-D-7609TABOR-W1-1-020118 (280-106036-32), FAY-D-7741TABOR-W1-1-020118 (280-106036-33) and FAY-D-FB-020118-B (280-106036-34). The laboratory logged the samples for HFPO-DA analysis per the information on the container labels of each respective sample. The client was notified on 2/5/2018.

The sample collection time listed on the container labels of FAY-D-47MAUDI-W1-2-020118 (280-106036-36) does not match the information on the chain of custody. The container labels list a collection time of 0905 while the chain of custody lists a collection time of 0900. The laboratory logged the sample collection time per the chain of custody. The client was notified on 2/5/2018. Per client instructions received on 2/7/2018, the sample collection time was revised to 0905.

The sample collection time on the container labels of FAY-D-1123NC20H-W1-1-020118 (280-106036-37) does not match the information on the chain of custody. The container labels list a collection time of 0946 while the chain of custody lists a collection time of 0943. The laboratory logged the sample collection time per the chain of custody. The client was notified on 2/5/2018.

A revised chain of custody capturing all missing sample IDs and/or collection date/times was submitted to the laboratory by the client via email on 2/9/2018. The revised and original chain of custody are included in the final report.

No other anomalies were observed during sample receipt.

Standards
Analytical standards were prepared using the acid form of the compound Perfluoro(2-propoxypropanoic) acid (HFPO-DA).

The surrogate compound, 13C3 HFPO-DA was introduced at the extraction step and was used as an internal standard for quantitation of HFPO-DA. The concentration of the surrogate spike is 0.2ug/L in water samples or 50ug/kg in soil samples.

Sample Extraction and Analysis
The samples presented in this report were extracted for the target analyte by TestAmerica Denver's SOP DV-OP-0019, Rev. 8 and analyzed for the target analyte by TestAmerica Denver's SOP DV-LC-0012, Rev. 14, with the exceptions of the items indicated in the DuPont QAS. Samples FAY-D-6476TABOR-W1-1-020118 (280-106036-2), FAY-D-5049MATTH-W1-1-020118 (280-106036-11) and FAY-D-3322DANDE-W1-1-020118 (280-106036-38) were chosen to be analyzed as duplicates and also to be spiked with the target analyte.

For water samples a 250mL aliquot of each sample is extracted using solid phase extraction technique with methanol conditioned Weak Anion Exchange cartridges. Each sample is spiked with the internal standard/surrogate, prior to extraction. After the sample is passed through the cartridge, the analytes are eluted with 2%Formic Acid, 6mLs of HPLC grade MeOH and then with 4mL of 10% ammonium hydroxide in methanol. The final volume is brought to 5mL using reagent water and the extract is analyzed by LC/MS/MS.

The target analyte is separated from other components on a high-performance liquid chromatography (HPLC) C18 column with a mobile phase mixture of water containing 0.1% ammonium acetate and methanol. The mass spectrometer detector is operated in the electrospray (ESI) negative ion mode. The instrument is calibrated at 7 concentration levels (0.2, 0.5, 1.0, 2.0, 5.0, 10 and 20ug/L). The target analyte is detected as the perfluoro(2-propoxypropanoic) acid with the parent ion of 328.8 amu. The daughter ions used for analysis by LC/MS/MS are at 284.8 amu. The ratio of the peak areas to the two ions must be ±20% of the ion ratios in the mid-point ICAL for qualitative identification. Sample results are quantitated using the internal standard dilution.

Tuning and Calibration
The instrument is tuned with a solution of the target analyte such that mass assignments are within ±0.5 amu of the daughter ions. The instrument is calibrated with seven concentration levels from 0.2ug/L to 20ug/L. Linear regression ($y=ax+b$) or quadratic functions (y=ax+cx2+b) are used with a correlation coefficient or coefficient of determination ≥0.990.
Following initial calibration (ICAL), an initial calibration blank (ICB) is tested, which consists of methanol spiked with the surrogate. The result for the target analyte must be less than one half the reporting limit (RL) to proceed.

Next an initial calibration verification (ICV) standard is tested. This is a mid-level concentration standard from a different vendor from the ICAL standard. If a different vendor is not available then, a different lot number from the same vendor is used. The ICV must be within 80-120% of the true value.

The quantitation limit verification standard is a standard from the same source as the ICAL tested run at the RL level to determine accuracy near the detection limit. This recovery must be within 70-130%.

Continuing calibration verification (CCV) standards are tested every 10 injections and are from the same source as the ICAL and are at mid-level concentration. The recovery of the CCVs must be 70-130% or recalibration is necessary.

Method QC Samples
The Method Blank is processed reagent water spiked with internal standard and prepared with each batch of 20 samples of the same matrix. All samples in the batch are processed at the same time and with the same reagents. The method blank must be less than the LOD or associated batch samples must be re-extracted and reanalyzed.

Each batch is prepared with a low- and a mid-level concentration spike Laboratory Control Samples (LCS). The recoveries of these samples must be within 70-130% or associated batch samples must be re-extracted and reanalyzed. If the recovery is biased high and samples are non-detect, results can be reported without re-extraction.

Calculations
Sample Result Calculation

For internal standard quantitation,
HFPO-DA Response = Area of HFPO-DA * 13C3 HFPO-DA concentration / area of 13C3 HFPO-DA

Concentration in waters, ug/L = (Cex Vt)/(Vo)
Where:
Cex = Concentration measured in sample extract from the target analyte response (ng/mL)
Vt = Volume of total extract (mL)
Vo = Volume of water extracted (mL)

2. Percent Recovery Calculation

Spike Recovery = (SSR-SR)/(SA)x100%

Where:
SSR = Spike sample result
SR = Sample result
SA = Spike added

3. Relative Percent Difference Calculation

RPD = (SR - DR)/(1/2(SR+DR))x100

Where:
SR = Sample result
DR = Duplicate result

HFPO-DA Analysis Anomalies

Samples FAY-D-6377TABOR-W1-1-020118 (280-106036-1), FAY-D-6476TABOR-W1-1-020118 (280-106036-2), FAY-D-6476TABOR-W1-1-020118-D (280-106036-3), FAY-D-6644TABOR-W1-1-020118 (280-106036-4), FAY-D-6644TABOR-W2-1-020118 (280-106036-5), FAY-D-6808TABOR-W1-1-020118 (280-106036-6), FAY-D-6838TABOR-W1-1-020118 (280-106036-7), FAY-D-6838TABOR-W2-1-020118 (280-106036-8), FAY-D-6858TABOR-W1-1-020118 (280-106036-9), FAY-D-7047TABOR-W1-1-020118 (280-106036-10), FAY-D-5049MATTH-W1-1-020118 (280-106036-11), FAY-D-7646TABOR-W1-1-020118 (280-106036-12), FAY-D-6731BUTLE-W1-1-020118 (280-106036-13), FAY-D-6731BUTLE-W1-2-020118 (280-106036-14), FAY-D-6815BUTLE-W1-1-020118 (280-106036-15), FAY-D-6893BUTLE-W1-1-020118 (280-106036-16), FAY-D-5018MRSHR-W1-1-020118 (280-106036-17), FAY-D-5018MRSHR-W1-2-020118 (280-106036-18), FAY-D-5021MRSHR-W1-1-020118 (280-106036-19), FAY-D-5021MRSHR-W1-2-020118 (280-106036-20), FAY-D-4065SPNSH-W1-1-020118 (280-106036-21), FAY-D-4065SPNSH-W1-2-020118 (280-106036-22), FAY-D-4057SPNSH-W1-1-020118 (280-106036-23), FAY-D-7265NC87H-W1-1-020118 (280-106036-24), FAY-D-7394NC87H-W1-1-020118 (280-106036-25), FAY-D-6711CHKFT-W1-1-020118 (280-106036-26), FAY-D-6416CHKFT-W1-1-020118 (280-106036-27), FAY-D-6591BUTLE-W1-1-020118 (280-106036-28), FAY-D-7149BUTLE-W1-1-020118 (280-106036-29), FAY-D-7243BUTLE-W1-1-020118 (280-106036-30), FAY-D-5049MATTH-W1-1-020118-D (280-106036-31), FAY-D-7609TABOR-W1-1-020118 (280-106036-32), FAY-D-7741TABOR-W1-1-020118 (280-106036-33), FAY-D-FB-020118-B (280-106036-34), FAY-D-47MAUDI-W1-1-020118 (280-106036-35), FAY-D-47MAUDI-W1-2-020118 (280-106036-36), FAY-D-1123NC20H-W1-1-020118 (280-106036-37), FAY-D-3322DANDE-W1-1-020118 (280-106036-38), FAY-D-3322DANDE-W1-1-020118D (280-106036-39), FAY-D-4057SPNSH-W1-2-020118 (280-106036-40), FAY-D-5085MRSHR-W1-1-020118 (280-106036-41), FAY-D-FB-020118 (280-106036-42) and FAY-D-FB-020118-A (280-106036-43) were analyzed for Perfluorinated Hydrocarbons in accordance with DV-LC-0012. The samples were prepared on 02/09/2018, 02/11/2018, 02/12/2018 and 02/13/2018 and analyzed on 02/12/2018, 02/13/2018 and 02/14/2018.

Calibration 9 (STD125) has been included in the raw data, but was not used in the Initial Calibration (ICAL).

Reporting limits have been adjusted accordingly for the initial volumes extracted.

The project required MS and Sample Duplicate could not be performed for prep batches 280-404556, 280-404557 and 280-404582, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

The Sample Duplicate analysis data associated with prep batch 280-404785 was performed on sample FAY-D-3322DANDE-W1-1-020118 (280-106036-38). The RPD data were not calculable as the parent and duplicate results were less than the reporting limit.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6377TABOR-W1-1-020118	280-106036-1	2/1/2018 8:47	2/2/2018	2/12/2018	0.012

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-2	115%

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager Date

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6476TABOR-W1-1-020118	280-106036-2	2/1/2018 9:22	2/2/2018	2/12/2018	0.038

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

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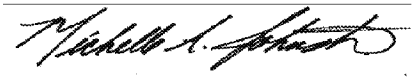
280-106036-2	115%

SUBMITTED BY:



2/16/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6476TABOR-W1-1-020118-D	280-106036-3	2/1/2018 9:22	2/2/2018	2/12/2018	0.038

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

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Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

SUBMITTED BY:

Michelle A. Johnston

4/2/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6644TABOR-W1-1-020118	280-106036-4	2/1/2018 9:56	2/2/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
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TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

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Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6644TABOR-W2-1-020118	280-106036-5	2/1/2018 9:57	2/2/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

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If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

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Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6808TABOR-W1-1-020118	280-106036-6	2/1/2018 10:45	2/2/2018	2/12/2018	0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

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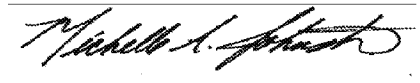
TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

SUBMITTED BY:



4/2/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
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Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6838TABOR-W1-1-020118	280-106036-7	2/1/2018 11:03	2/2/2018	2/12/2018	0.012

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

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For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

SUBMITTED BY:

Michelle A. Johnston

4/2/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6838TABOR-W2-1-020118	280-106036-8	2/1/2018 11:04	2/2/2018	2/12/2018	0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

SUBMITTED BY:

Michelle A. Johnston

4/2/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6858TABOR-W1-1-020118	280-106036-9	2/1/2018 11:13	2/2/2018	2/12/2018	0.025

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

SUBMITTED BY:

Michelle A. Johnston

4/2/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-7047TABOR-W1-1-020118	280-106036-10	2/1/2018 11:51	2/2/2018	2/12/2018	0.13

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

SUBMITTED BY:

Michelle A. Johnston

4/2/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5049MATTH-W1-1-020118	280-106036-11	2/1/2018 13:48	2/2/2018	2/12/2018	0.11

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

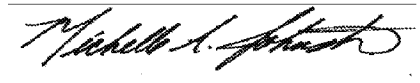
RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

SUBMITTED BY:



4/2/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-7646TABOR-W1-1-02018	280-106036-12	2/1/2018 14:55	2/2/2018	2/12/2018	0.029

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

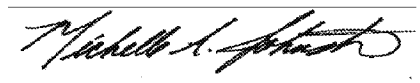
RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

SUBMITTED BY:



4/2/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6731BUTLE-W1-1-020118	280-106036-13	2/1/2018 8:24	2/2/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

SUBMITTED BY:

Michelle A. Johnston

4/2/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6731BUTLE-W1-2-020118	280-106036-14	2/1/2018 8:26	2/2/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

SUBMITTED BY:

Michelle A. Johnston

4/2/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6815BUTLE-W1-1-020118	280-106036-15	2/1/2018 8:53	2/2/2018	2/12/2018	0.021

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

SUBMITTED BY:

Michelle A. Johnston

4/2/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6893BUTLE-W1-1-020118	280-106036-16	2/1/2018 9:44	2/2/2018	2/12/2018	0.042

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

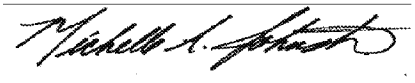
RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

SUBMITTED BY:



4/2/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5018MRSHR-W1-1-020118	280-106036-17	2/1/2018 11:13	2/2/2018	2/12/2018	0.031

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

SUBMITTED BY:

Michelle A. Johnston

4/2/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5018MRSHR-W1-2-020118	280-106036-18	2/1/2018 11:13	2/2/2018	2/12/2018	0.023

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-11	94%

SUBMITTED BY:

Michelle A. Johnston

4/2/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5021MRSHR-W1-1-020118	280-106036-19	2/1/2018 11:44	2/2/2018	2/12/2018	0.015

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404556, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager — Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5021MRSHR-W1-2-020118	280-106036-20	2/1/2018 11:48	2/2/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404556, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager — Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-4065SPNSH-W1-1-020118	280-106036-21	2/1/2018 13:51	2/2/2018	2/12/2018	0.037

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404556, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager — Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-4065SPNSH-W1-2-020118	280-106036-22	2/1/2018 13:55	2/2/2018	2/12/2018	0.029

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404556, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager — Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-4057SPNSH-W1-1-020118	280-106036-23	2/1/2018 14:34	2/2/2018	2/12/2018	0.026

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404557, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston

3/29/2018

Michelle A. Johnston, Project Manager — Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-7265NC87H-W1-1-020118	280-106036-24	2/1/2018 9:26	2/2/2018	2/12/2018	0.026

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404557, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager — Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-7394NC87H-W1-1-020118	280-106036-25	2/1/2018 10:42	2/2/2018	2/12/2018	0.048

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404557, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager — Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6711CHKFT-W1-1-020118	280-106036-26	2/1/2018 11:52	2/2/2018	2/12/2018	0.083

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404557, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager — Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6416CHKFT-W1-1-020118	280-106036-27	2/1/2018 12:04	2/2/2018	2/14/2018	0.052

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-38	95%

SUBMITTED BY:

Michelle A. Johnston

3/29/2018

Michelle A. Johnston, Project Manager — Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6591BUTLE-W1-1-020118	280-106036-28	2/1/2018 14:38	2/2/2018	2/14/2018	0.016

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-38	95%

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-7149BUTLE-W1-1-020118	280-106036-29	2/1/2018 15:03	2/2/2018	2/14/2018	0.061

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-38	95%

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-7243BUTLE-W1-1-020118	280-106036-30	2/1/2018 17:11	2/2/2018	2/14/2018	0.089

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-38	95%

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5049MATTH-W1-1-020118-D	280-106036-31	2/1/2018 13:48	2/2/2018	2/14/2018	0.12

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

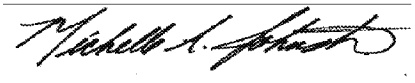
RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-38	95%

SUBMITTED BY:



2/16/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-7609TABOR-W1-1-020118	280-106036-32	2/1/2018 14:41	2/2/2018	2/14/2018	0.15

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-38	95%

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-7741TABOR-W1-1-020118	280-106036-33	2/1/2018 15:08	2/2/2018	2/14/2018	0.10

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-38	95%

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-FB-020118-B	280-106036-34	2/1/2018 17:00	2/2/2018	2/14/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

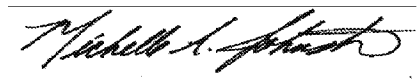
RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-38	95%

SUBMITTED BY:



2/16/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-47MAUDI-W1-1-020118	280-106036-35	2/1/2018 9:00	2/2/2018	2/14/2018	0.016

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

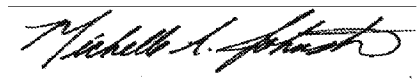
RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-38	95%

SUBMITTED BY:



2/16/2018

Michelle A. Johnston, Project Manager Date

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-47MAUDI-W1-2-020118	280-106036-36	2/1/2018 9:05	2/2/2018	2/14/2018	0.015

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

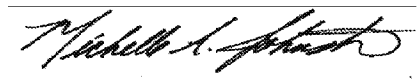
RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-38	95%

SUBMITTED BY:



2/16/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-1123NC20H-W1-1-020118	280-106036-37	2/1/2018 9:43	2/2/2018	2/14/2018	0.018

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-38	95%

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3322DANDE-W1-1-020118	280-106036-38	2/1/2018 16:30	2/2/2018	2/14/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106036-38	95%

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3322DANDE-W1-1-020118D	280-106036-39	2/1/2018 16:30	2/2/2018	2/13/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404582, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager — Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-4057SPNSH-W1-2-020118	280-106036-40	2/1/2018 14:35	2/2/2018	2/13/2018	0.022

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404582, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston

3/29/2018

Michelle A. Johnston, Project Manager — Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5085MRSHR-W1-1-020118	280-106036-41	2/1/2018 17:10	2/2/2018	2/13/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404582, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager — Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-FB-020118	280-106036-42	2/1/2018 7:55	2/2/2018	2/13/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404582, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager — Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-FB-020118-A	280-106036-43	2/1/2018 13:00	2/2/2018	2/13/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404582, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston

2/16/2018

Michelle A. Johnston, Project Manager — Date

8321A : HFPO-DA

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
280-106036-1	FAY-D-6377TABOR-W1-1-020118	HFPO-DA	0.012	0.012	0.010
280-106036-2	FAY-D-6476TABOR-W1-1-020118	HFPO-DA	0.036	0.038	0.010
280-106036-2 DU	FAY-D-6476TABOR-W1-1-020118	HFPO-DA	0.040		0.010
280-106036-3	FAY-D-6476TABOR-W1-1-020118-D	HFPO-DA	0.038	0.038	0.010
280-106036-4	FAY-D-6644TABOR-W1-1-020118	HFPO-DA	<0.010	<0.010	0.010
280-106036-5	FAY-D-6644TABOR-W2-1-020118	HFPO-DA	<0.010	<0.010	0.010
280-106036-6	FAY-D-6808TABOR-W1-1-020118	HFPO-DA	0.010	0.010	0.010
280-106036-7	FAY-D-6838TABOR-W1-1-020118	HFPO-DA	0.012	0.012	0.010
280-106036-8	FAY-D-6838TABOR-W2-1-020118	HFPO-DA	0.010	0.010	0.010
280-106036-9	FAY-D-6858TABOR-W1-1-020118	HFPO-DA	0.025	0.025	0.010
280-106036-10	FAY-D-7047TABOR-W1-1-020118	HFPO-DA	0.13	0.13	0.010
280-106036-11	FAY-D-5049MATTH-W1-1-020118	HFPO-DA	0.11	0.11	0.010
280-106036-11 DU	FAY-D-5049MATTH-W1-1-020118	HFPO-DA	0.11		0.010
280-106036-12	FAY-D-7646TABOR-W1-1-02018	HFPO-DA	0.029	0.029	0.010
280-106036-13	FAY-D-6731BUTLE-W1-1-020118	HFPO-DA	<0.010	<0.010	0.010
280-106036-14	FAY-D-6731BUTLE-W1-2-020118	HFPO-DA	<0.010	<0.010	0.010
280-106036-15	FAY-D-6815BUTLE-W1-1-020118	HFPO-DA	0.021	0.021	0.010
280-106036-16	FAY-D-6893BUTLE-W1-1-020118	HFPO-DA	0.042	0.042	0.010
280-106036-17	FAY-D-5018MRSHR-W1-1-020118	HFPO-DA	0.031	0.031	0.010
280-106036-18	FAY-D-5018MRSHR-W1-2-020118	HFPO-DA	0.023	0.023	0.010
280-106036-19	FAY-D-5021MRSHR-W1-1-020118	HFPO-DA	0.015	0.015	0.010
280-106036-20	FAY-D-5021MRSHR-W1-2-020118	HFPO-DA	<0.010	<0.010	0.010
280-106036-21	FAY-D-4065SPNSH-W1-1-020118	HFPO-DA	0.037	0.037	0.010
280-106036-22	FAY-D-4065SPNSH-W1-2-020118	HFPO-DA	0.029	0.029	0.010
280-106036-23	FAY-D-4057SPNSH-W1-1-020118	HFPO-DA	0.026	0.026	0.010
280-106036-24	FAY-D-7265NC87H-W1-1-020118	HFPO-DA	0.026	0.026	0.010
280-106036-25	FAY-D-7394NC87H-W1-1-020118	HFPO-DA	0.048	0.048	0.010
280-106036-26	FAY-D-6711CHKFT-W1-1-020118	HFPO-DA	0.083	0.083	0.010
280-106036-27	FAY-D-6416CHKFT-W1-1-020118	HFPO-DA	0.052	0.052	0.010
280-106036-28	FAY-D-6591BUTLE-W1-1-020118	HFPO-DA	0.016	0.016	0.010
280-106036-29	FAY-D-7149BUTLE-W1-1-020118	HFPO-DA	0.061	0.061	0.010
280-106036-30	FAY-D-7243BUTLE-W1-1-020118	HFPO-DA	0.089	0.089	0.010
280-106036-31	FAY-D-5049MATTH-W1-1-020118-D	HFPO-DA	0.12	0.12	0.010
280-106036-32	FAY-D-7609TABOR-W1-1-020118	HFPO-DA	0.15	0.15	0.010
280-106036-33	FAY-D-7741TABOR-W1-1-020118	HFPO-DA	0.10	0.10	0.010
280-106036-34	FAY-D-FB-020118-B	HFPO-DA	<0.010	<0.010	0.010
280-106036-35	FAY-D-47MAUDI-W1-1-020118	HFPO-DA	0.016	0.016	0.010
280-106036-36	FAY-D-47MAUDI-W1-2-020118	HFPO-DA	0.015	0.015	0.010
280-106036-37	FAY-D-1123NC20H-W1-1-020118	HFPO-DA	0.018	0.018	0.010
280-106036-38	FAY-D-3322DANDE-W1-1-020118	HFPO-DA	<0.010	<0.010	0.010
280-106036-38 DU	FAY-D-3322DANDE-W1-1-020118	HFPO-DA	<0.010		0.010

(a) Method 8321A

(b) DUP or REP indicates a laboratory duplicate.

(c) If the sample and laboratory duplicate are both greater than 5X the RL and the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher of the sample and laboratory duplicate value is reported. If the sample and/or laboratory duplicate are less than 5X the RL, and the absolute difference between the sample and laboratory duplicate is less than the RL, the average value is reported. If the absolute difference is greater than the RL, the higher of the sample and laboratory duplicate value is reported. If either the sample or the duplicate result is greater than or equal to the RL and the other is less than the RL, then the higher of the two is reported.

(d) Moisture Determined by ASTM D2216.

(e) Reporting Limit (RL) = The concentration equivalent to the low calibration standard.

8321A : HFPO-DA

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
280-106036-39	FAY-D-3322DANDE-W1-1-020118D	HFPO-DA	<0.010	<0.010	0.010
280-106036-40	FAY-D-4057SPNSH-W1-2-020118	HFPO-DA	0.022	0.022	0.010
280-106036-41	FAY-D-5085MRSHR-W1-1-020118	HFPO-DA	<0.010	<0.010	0.010
280-106036-42	FAY-D-FB-020118	HFPO-DA	<0.010	<0.010	0.010
280-106036-43	FAY-D-FB-020118-A	HFPO-DA	<0.010	<0.010	0.010

(a) Method 8321A

(b) DUP or REP indicates a laboratory duplicate.

(c) If the sample and laboratory duplicate are both greater than 5X the RL and the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher of the sample and laboratory duplicate value is reported. If the sample and/or laboratory duplicate are less than 5X the RL, and the absolute difference between the sample and laboratory duplicate is less than the RL, the average value is reported. If the absolute difference is greater than the RL, the higher of the sample and laboratory duplicate value is reported. If either the sample or the duplicate result is greater than or equal to the RL and the other is less than the RL, then the higher of the two is reported.

(d) Moisture Determined by ASTM D2216.

(e) Reporting Limit (RL) = The concentration equivalent to the low calibration standard.

Detection Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-106036-1

Client Sample ID: FAY-D-6377TABOR-W1-1-020118 — Lab Sample ID: 280-106036-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.012		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-6476TABOR-W1-1-020118 — Lab Sample ID: 280-106036-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.036		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-6476TABOR-W1-1-020118-D — Lab Sample ID: 280-106036-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.038		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-6644TABOR-W1-1-020118 — Lab Sample ID: 280-106036-4

No Detections.

Client Sample ID: FAY-D-6644TABOR-W2-1-020118 — Lab Sample ID: 280-106036-5

No Detections.

Client Sample ID: FAY-D-6808TABOR-W1-1-020118 — Lab Sample ID: 280-106036-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.010		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-6838TABOR-W1-1-020118 — Lab Sample ID: 280-106036-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.012		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-6838TABOR-W2-1-020118 — Lab Sample ID: 280-106036-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.010		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-6858TABOR-W1-1-020118 — Lab Sample ID: 280-106036-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.025		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-7047TABOR-W1-1-020118 — Lab Sample ID: 280-106036-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.13		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-5049MATTH-W1-1-020118 — Lab Sample ID: 280-106036-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.11		0.010		ug/L	1		8321A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-106036-1

Client Sample ID: FAY-D-7646TABOR-W1-1-02018 — Lab Sample ID: 280-106036-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.029		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-6731BUTLE-W1-1-020118 — Lab Sample ID: 280-106036-13

No Detections.

Client Sample ID: FAY-D-6731BUTLE-W1-2-020118 — Lab Sample ID: 280-106036-14

No Detections.

Client Sample ID: FAY-D-6815BUTLE-W1-1-020118 — Lab Sample ID: 280-106036-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.021		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-6893BUTLE-W1-1-020118 — Lab Sample ID: 280-106036-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.042		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-5018MRSHR-W1-1-020118 — Lab Sample ID: 280-106036-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.031		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-5018MRSHR-W1-2-020118 — Lab Sample ID: 280-106036-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.023		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-5021MRSHR-W1-1-020118 — Lab Sample ID: 280-106036-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.015		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-5021MRSHR-W1-2-020118 — Lab Sample ID: 280-106036-20

No Detections.

Client Sample ID: FAY-D-4065SPNSH-W1-1-020118 — Lab Sample ID: 280-106036-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.037		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-4065SPNSH-W1-2-020118 — Lab Sample ID: 280-106036-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.029		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-4057SPNSH-W1-1-020118 — Lab Sample ID: 280-106036-23

This Detection Summary does not include radiochemical test results.

Client Sample ID: FAY-D-4057SPNSH-W1-1-020118 (Continued)

Lab Sample ID: 280-106036-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.026		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-7265NC87H-W1-1-020118

Lab Sample ID: 280-106036-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.026		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-7394NC87H-W1-1-020118

Lab Sample ID: 280-106036-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.048		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-6711CHKFT-W1-1-020118

Lab Sample ID: 280-106036-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.083		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-6416CHKFT-W1-1-020118

Lab Sample ID: 280-106036-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.052		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-6591BUTLE-W1-1-020118

Lab Sample ID: 280-106036-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.016		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-7149BUTLE-W1-1-020118

Lab Sample ID: 280-106036-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.061		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-7243BUTLE-W1-1-020118

Lab Sample ID: 280-106036-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.089		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-5049MATTH-W1-1-020118-D

Lab Sample ID: 280-106036-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.12		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-7609TABOR-W1-1-020118

Lab Sample ID: 280-106036-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.15		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-7741TABOR-W1-1-020118

Lab Sample ID: 280-106036-33

This Detection Summary does not include radiochemical test results.

Client Sample ID: FAY-D-7741TABOR-W1-1-020118 (Continued)

Lab Sample ID: 280-106036-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.10		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-FB-020118-B

Lab Sample ID: 280-106036-34

No Detections.

Client Sample ID: FAY-D-47MAUDI-W1-1-020118

Lab Sample ID: 280-106036-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.016		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-47MAUDI-W1-2-020118

Lab Sample ID: 280-106036-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.015		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-1123NC20H-W1-1-020118

Lab Sample ID: 280-106036-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.018		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3322DANDE-W1-1-020118

Lab Sample ID: 280-106036-38

No Detections.

Client Sample ID: FAY-D-3322DANDE-W1-1-020118D

Lab Sample ID: 280-106036-39

No Detections.

Client Sample ID: FAY-D-4057SPNSH-W1-2-020118

Lab Sample ID: 280-106036-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.022		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-5085MRSHR-W1-1-020118

Lab Sample ID: 280-106036-41

No Detections.

Client Sample ID: FAY-D-FB-020118

Lab Sample ID: 280-106036-42

No Detections.

Client Sample ID: FAY-D-FB-020118-A

Lab Sample ID: 280-106036-43

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: FAY-D-6377TABOR-W1-1-020118

Lab Sample ID: 280-106036-1

Date Collected: 02/01/18 08:47
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.012**		0.010		ug/L		02/09/18 20:54	02/12/18 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*66*		*50 - 200*	*02/09/18 20:54*	*02/12/18 13:55*	*1*

Client Sample ID: FAY-D-6476TABOR-W1-1-020118

Lab Sample ID: 280-106036-2

Date Collected: 02/01/18 09:22
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.036		0.010		ug/L		02/09/18 20:54	02/12/18 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*71*		*50 - 200*	*02/09/18 20:54*	*02/12/18 13:58*	*1*

Client Sample ID: FAY-D-6476TABOR-W1-1-020118-D

Lab Sample ID: 280-106036-3

Date Collected: 02/01/18 09:22
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.038		0.010		ug/L		02/11/18 11:55	02/12/18 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*70*		*50 - 200*	*02/11/18 11:55*	*02/12/18 14:53*	*1*

Client Sample ID: FAY-D-6644TABOR-W1-1-020118

Lab Sample ID: 280-106036-4

Date Collected: 02/01/18 09:56
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/11/18 11:55	02/12/18 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*80*		*50 - 200*	*02/11/18 11:55*	*02/12/18 14:57*	*1*

Client Sample ID: FAY-D-6644TABOR-W2-1-020118

Lab Sample ID: 280-106036-5

Date Collected: 02/01/18 09:57
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/11/18 11:55	02/12/18 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*68*		*50 - 200*	*02/11/18 11:55*	*02/12/18 15:03*	*1*

Client Sample ID: FAY-D-6808TABOR-W1-1-020118

Lab Sample ID: 280-106036-6

Date Collected: 02/01/18 10:45
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.010		0.010		ug/L		02/11/18 11:55	02/12/18 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*69*		*50 - 200*	*02/11/18 11:55*	*02/12/18 15:06*	*1*

Client Sample ID: FAY-D-6838TABOR-W1-1-020118

Lab Sample ID: 280-106036-7

Date Collected: 02/01/18 11:03
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.012		0.010		ug/L		02/11/18 11:55	02/12/18 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*70*		*50 - 200*	*02/11/18 11:55*	*02/12/18 15:10*	*1*

Client Sample ID: FAY-D-6838TABOR-W2-1-020118

Lab Sample ID: 280-106036-8

Date Collected: 02/01/18 11:04
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.010		0.010		ug/L		02/11/18 11:55	02/12/18 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*69*		*50 - 200*	*02/11/18 11:55*	*02/12/18 15:13*	*1*

Client Sample ID: FAY-D-6858TABOR-W1-1-020118

Lab Sample ID: 280-106036-9

Date Collected: 02/01/18 11:13
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.025		0.010		ug/L		02/11/18 11:55	02/12/18 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*71*		*50 - 200*	*02/11/18 11:55*	*02/12/18 15:16*	*1*

Client Sample ID: FAY-D-7047TABOR-W1-1-020118

Lab Sample ID: 280-106036-10

Date Collected: 02/01/18 11:51
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.13		0.010		ug/L		02/11/18 11:55	02/12/18 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*72*		*50 - 200*	*02/11/18 11:55*	*02/12/18 15:19*	*1*

Client Sample ID: FAY-D-5049MATTH-W1-1-020118
Lab Sample ID: 280-106036-11
Date Collected: 02/01/18 13:48
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.11		0.010		ug/L		02/11/18 11:55	02/12/18 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*77*		*50 - 200*	*02/11/18 11:55*	*02/12/18 15:23*	*1*

Client Sample ID: FAY-D-7646TABOR-W1-1-02018

Lab Sample ID: 280-106036-12

Date Collected: 02/01/18 14:55
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.029		0.010		ug/L		02/11/18 11:55	02/12/18 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*69*		*50 - 200*	*02/11/18 11:55*	*02/12/18 15:32*	*1*

Client Sample ID: FAY-D-6731BUTLE-W1-1-020118
Lab Sample ID: 280-106036-13
Date Collected: 02/01/18 08:24
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/11/18 11:55	02/12/18 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*76*		*50 - 200*	*02/11/18 11:55*	*02/12/18 15:39*	*1*

Client Sample ID: FAY-D-6731BUTLE-W1-2-020118
Lab Sample ID: 280-106036-14
Date Collected: 02/01/18 08:26
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/11/18 11:55	02/12/18 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*77*		*50 - 200*	*02/11/18 11:55*	*02/12/18 15:42*	*1*

Client Sample ID: FAY-D-6815BUTLE-W1-1-020118
Lab Sample ID: 280-106036-15
Date Collected: 02/01/18 08:53
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.021**		0.010		ug/L		02/11/18 11:55	02/12/18 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*83*		*50 - 200*	*02/11/18 11:55*	*02/12/18 15:45*	*1*

Client Sample ID: FAY-D-6893BUTLE-W1-1-020118
Lab Sample ID: 280-106036-16
Date Collected: 02/01/18 09:44
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.042		0.010		ug/L		02/11/18 11:55	02/12/18 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*77*		*50 - 200*	*02/11/18 11:55*	*02/12/18 15:49*	*1*

Client Sample ID: FAY-D-5018MRSHR-W1-1-020118

Lab Sample ID: 280-106036-17

Date Collected: 02/01/18 11:13
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.031		0.010		ug/L		02/11/18 11:55	02/12/18 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*69*		*50 - 200*	*02/11/18 11:55*	*02/12/18 15:52*	*1*

Client Sample ID: FAY-D-5018MRSHR-W1-2-020118
Lab Sample ID: 280-106036-18
Date Collected: 02/01/18 11:13
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.023**		0.010		ug/L		02/11/18 11:55	02/12/18 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*73*		*50 - 200*	*02/11/18 11:55*	*02/12/18 15:55*	*1*

Client Sample ID: FAY-D-5021MRSHR-W1-1-020118
Lab Sample ID: 280-106036-19
Date Collected: 02/01/18 11:44
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.015		0.010		ug/L		02/11/18 19:22	02/12/18 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*67*		*50 - 200*	*02/11/18 19:22*	*02/12/18 16:15*	*1*

Client Sample ID: FAY-D-5021MRSHR-W1-2-020118
Lab Sample ID: 280-106036-20
Date Collected: 02/01/18 11:48
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/11/18 19:22	02/12/18 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*76*		*50 - 200*	*02/11/18 19:22*	*02/12/18 16:18*	*1*

Client Sample ID: FAY-D-4065SPNSH-W1-1-020118
Lab Sample ID: 280-106036-21
Date Collected: 02/01/18 13:51
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.037**		0.010		ug/L		02/11/18 19:22	02/12/18 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*67*		*50 - 200*	*02/11/18 19:22*	*02/12/18 16:21*	*1*

Client Sample ID: FAY-D-4065SPNSH-W1-2-020118

Lab Sample ID: 280-106036-22

Date Collected: 02/01/18 13:55
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.029		0.010		ug/L		02/11/18 19:22	02/12/18 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*78*		*50 - 200*	*02/11/18 19:22*	*02/12/18 16:25*	*1*

Client Sample ID: FAY-D-4057SPNSH-W1-1-020118

Lab Sample ID: 280-106036-23

Date Collected: 02/01/18 14:34
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.026		0.010		ug/L		02/11/18 19:44	02/12/18 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*75*		*50 - 200*	*02/11/18 19:44*	*02/12/18 17:49*	*1*

Client Sample ID: FAY-D-7265NC87H-W1-1-020118

Lab Sample ID: 280-106036-24

Date Collected: 02/01/18 09:26
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.026		0.010		ug/L		02/11/18 19:44	02/12/18 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*68*		*50 - 200*	*02/11/18 19:44*	*02/12/18 17:53*	*1*

Client Sample ID: FAY-D-7394NC87H-W1-1-020118

Lab Sample ID: 280-106036-25

Date Collected: 02/01/18 10:42
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.048		0.010		ug/L		02/11/18 19:44	02/12/18 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*87*		*50 - 200*	*02/11/18 19:44*	*02/12/18 17:56*	*1*

Client Sample ID: FAY-D-6711CHKFT-W1-1-020118
Lab Sample ID: 280-106036-26
Date Collected: 02/01/18 11:52
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.083		0.010		ug/L		02/11/18 19:44	02/12/18 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*76*		*50 - 200*	*02/11/18 19:44*	*02/12/18 17:59*	*1*

Client Sample ID: FAY-D-6416CHKFT-W1-1-020118
Lab Sample ID: 280-106036-27
Date Collected: 02/01/18 12:04
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.052		0.010		ug/L		02/13/18 11:30	02/14/18 08:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*78*		*50 - 200*	*02/13/18 11:30*	*02/14/18 08:16*	*1*

Client Sample ID: FAY-D-6591BUTLE-W1-1-020118
Lab Sample ID: 280-106036-28
Date Collected: 02/01/18 14:38
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.016		0.010		ug/L		02/13/18 11:30	02/14/18 08:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*77*		*50 - 200*	*02/13/18 11:30*	*02/14/18 08:20*	*1*

Client Sample ID: FAY-D-7149BUTLE-W1-1-020118

Lab Sample ID: 280-106036-29

Date Collected: 02/01/18 15:03
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.061		0.010		ug/L		02/13/18 11:30	02/14/18 08:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*82*		*50 - 200*	*02/13/18 11:30*	*02/14/18 08:23*	*1*

Client Sample ID: FAY-D-7243BUTLE-W1-1-020118

Lab Sample ID: 280-106036-30

Date Collected: 02/01/18 17:11
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.089		0.010		ug/L		02/13/18 11:30	02/14/18 08:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*85*		*50 - 200*	*02/13/18 11:30*	*02/14/18 08:26*	*1*

Client Sample ID: FAY-D-5049MATTH-W1-1-020118-D
Lab Sample ID: 280-106036-31
Date Collected: 02/01/18 13:48
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.12**		0.010		ug/L		02/13/18 11:30	02/14/18 08:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*75*		*50 - 200*	*02/13/18 11:30*	*02/14/18 08:30*	*1*

Client Sample ID: FAY-D-7609TABOR-W1-1-020118
Lab Sample ID: 280-106036-32
Date Collected: 02/01/18 14:41
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.15		0.010		ug/L		02/13/18 11:30	02/14/18 08:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*71*		*50 - 200*	*02/13/18 11:30*	*02/14/18 08:33*	*1*

Client Sample ID: FAY-D-7741TABOR-W1-1-020118
Lab Sample ID: 280-106036-33
Date Collected: 02/01/18 15:08
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.10**		0.010		ug/L		02/13/18 11:30	02/14/18 08:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*81*		*50 - 200*	*02/13/18 11:30*	*02/14/18 08:39*	*1*

Client Sample ID: FAY-D-FB-020118-B

Lab Sample ID: 280-106036-34

Date Collected: 02/01/18 17:00
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/13/18 11:30	02/14/18 08:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*82*		*50 - 200*	*02/13/18 11:30*	*02/14/18 08:43*	*1*

Client Sample ID: FAY-D-47MAUDI-W1-1-020118

Lab Sample ID: 280-106036-35

Date Collected: 02/01/18 09:00
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.016		0.010		ug/L		02/13/18 11:30	02/14/18 08:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*82*		*50 - 200*	*02/13/18 11:30*	*02/14/18 08:46*	*1*

Client Sample ID: FAY-D-47MAUDI-W1-2-020118

Lab Sample ID: 280-106036-36

Date Collected: 02/01/18 09:05
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.015		0.010		ug/L		02/13/18 11:30	02/14/18 08:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*81*		*50 - 200*	*02/13/18 11:30*	*02/14/18 08:49*	*1*

Client Sample ID: FAY-D-1123NC20H-W1-1-020118

Lab Sample ID: 280-106036-37

Date Collected: 02/01/18 09:43
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	0.018		0.010		ug/L		02/13/18 11:30	02/14/18 08:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*75*		*50 - 200*	*02/13/18 11:30*	*02/14/18 08:52*	*1*

Client Sample ID: FAY-D-3322DANDE-W1-1-020118
Lab Sample ID: 280-106036-38
Date Collected: 02/01/18 16:30
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/13/18 11:30	02/14/18 08:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*82*		*50 - 200*	*02/13/18 11:30*	*02/14/18 08:56*	*1*

Client Sample ID: FAY-D-3322DANDE-W1-1-020118D
Lab Sample ID: 280-106036-39

Date Collected: 02/01/18 16:30
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/12/18 08:23	02/13/18 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*113*		*50 - 200*	*02/12/18 08:23*	*02/13/18 12:39*	*1*

Client Sample ID: FAY-D-4057SPNSH-W1-2-020118
Lab Sample ID: 280-106036-40
Date Collected: 02/01/18 14:35
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.022**		0.010		ug/L		02/12/18 08:23	02/13/18 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*107*		*50 - 200*	*02/12/18 08:23*	*02/13/18 12:42*	*1*

Client Sample ID: FAY-D-5085MRSHR-W1-1-020118
Lab Sample ID: 280-106036-41
Date Collected: 02/01/18 17:10
Matrix: Water
Date Received: 02/02/18 09:45

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/12/18 08:23	02/13/18 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*118*		*50 - 200*	*02/12/18 08:23*	*02/13/18 12:45*	*1*

Client Sample ID: FAY-D-FB-020118

Lab Sample ID: 280-106036-42

Date Collected: 02/01/18 07:55
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/12/18 08:23	02/13/18 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*114*		*50 - 200*	*02/12/18 08:23*	*02/13/18 12:49*	*1*

Client Sample ID: FAY-D-FB-020118-A

Lab Sample ID: 280-106036-43

Date Collected: 02/01/18 13:00
Date Received: 02/02/18 09:45

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/12/18 08:23	02/13/18 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*111*		*50 - 200*	*02/12/18 08:23*	*02/13/18 12:52*	*1*

Default Detection Limits

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-106036-1

Method: 8321A - HFPO-DA

Prep: 3535

Analyte	RL	MDL	Units	Method
HFPO-DA	0.010	0.0051	ug/L	8321A

Surrogate Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-106036-1

Method: 8321A - HFPO-DA

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	HFPODA (50-200)
280-106036-1	FAY-D-6377TABOR-W1-1-0201	66
280-106036-2	FAY-D-6476TABOR-W1-1-0201	71
280-106036-2 DU	FAY-D-6476TABOR-W1-1-0201	66
280-106036-2 MS	FAY-D-6476TABOR-W1-1-0201	63
280-106036-3	FAY-D-6476TABOR-W1-1-0201	70
280-106036-4	FAY-D-6644TABOR-W1-1-0201	80
280-106036-5	FAY-D-6644TABOR-W2-1-0201	68
280-106036-6	FAY-D-6808TABOR-W1-1-0201	69
280-106036-7	FAY-D-6838TABOR-W1-1-0201	70
280-106036-8	FAY-D-6838TABOR-W2-1-0201	69
280-106036-9	FAY-D-6858TABOR-W1-1-0201	71
280-106036-10	FAY-D-7047TABOR-W1-1-0201	72
280-106036-11	FAY-D-5049MATTH-W1-1-0201	77
280-106036-11 DU	FAY-D-5049MATTH-W1-1-0201	73
280-106036-11 MS	FAY-D-5049MATTH-W1-1-0201	76
280-106036-12	FAY-D-7646TABOR-W1-1-0201	69
280-106036-13	FAY-D-6731BUTLE-W1-1-0201	76
280-106036-14	FAY-D-6731BUTLE-W1-2-0201	77
280-106036-15	FAY-D-6815BUTLE-W1-1-0201	83
280-106036-16	FAY-D-6893BUTLE-W1-1-0201	77
280-106036-17	FAY-D-5018MRSHR-W1-1-0201	69
280-106036-18	FAY-D-5018MRSHR-W1-2-0201	73
280-106036-19	FAY-D-5021MRSHR-W1-1-0201	67
280-106036-20	FAY-D-5021MRSHR-W1-2-0201	76
280-106036-21	FAY-D-4065SPNSH-W1-1-0201	67
280-106036-22	FAY-D-4065SPNSH-W1-2-0201	78
280-106036-23	FAY-D-4057SPNSH-W1-1-0201	75
280-106036-24	FAY-D-7265NC87H-W1-1-0201	68
280-106036-25	FAY-D-7394NC87H-W1-1-0201	87
280-106036-26	FAY-D-6711CHKFT-W1-1-0201	76
280-106036-27	FAY-D-6416CHKFT-W1-1-0201	78
280-106036-28	FAY-D-6591BUTLE-W1-1-0201	77
280-106036-29	FAY-D-7149BUTLE-W1-1-0201	82
280-106036-30	FAY-D-7243BUTLE-W1-1-0201	85
280-106036-31	FAY-D-5049MATTH-W1-1-0201	75
280-106036-32	FAY-D-7609TABOR-W1-1-0201	71
280-106036-33	FAY-D-7741TABOR-W1-1-0201	81
280-106036-34	FAY-D-FB-020118-B	82
280-106036-35	FAY-D-47MAUDI-W1-1-020118	82
280-106036-36	FAY-D-47MAUDI-W1-2-020118	81
280-106036-37	FAY-D-1123NC20H-W1-1-0201	75
280-106036-38	FAY-D-3322DANDE-W1-1-0201	82
280-106036-38 DU	FAY-D-3322DANDE-W1-1-0201	78
280-106036-38 MS	FAY-D-3322DANDE-W1-1-0201	83
280-106036-39	FAY-D-3322DANDE-W1-1-0201	113
280-106036-40	FAY-D-4057SPNSH-W1-2-0201	107
280-106036-41	FAY-D-5085MRSHR-W1-1-0201	118
280-106036-42	FAY-D-FB-020118	114
280-106036-43	FAY-D-FB-020118-A	111

Method: 8321A - HFPO-DA (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)							
DLCK 280-404345/13	Lab Control Sample	104							
LCS 280-404518/2-A	Lab Control Sample	74							
LCS 280-404551/2-A	Lab Control Sample	74							
LCS 280-404556/2-A	Lab Control Sample	78							
LCS 280-404557/2-A	Lab Control Sample	78							
LCS 280-404582/2-A	Lab Control Sample	112							
LCS 280-404785/2-A	Lab Control Sample	79							
LCSD 280-404518/3-A	Lab Control Sample Dup	71							
LCSD 280-404551/4-A	Lab Control Sample Dup	79							
LCSD 280-404556/3-A	Lab Control Sample Dup	75							
LCSD 280-404557/3-A	Lab Control Sample Dup	78							
LCSD 280-404582/3-A	Lab Control Sample Dup	112							
LCSD 280-404785/4-A	Lab Control Sample Dup	82							
LLCS 280-404518/4-A	Lab Control Sample	73							
LLCS 280-404551/3-A	Lab Control Sample	82							
LLCS 280-404556/4-A	Lab Control Sample	76							
LLCS 280-404557/4-A	Lab Control Sample	84							
LLCS 280-404582/4-A	Lab Control Sample	119							
LLCS 280-404785/3-A	Lab Control Sample	84							
MB 280-404518/1-A	Method Blank	74							
MB 280-404551/1-A	Method Blank	72							
MB 280-404556/1-A	Method Blank	77							
MB 280-404557/1-A	Method Blank	81							
MB 280-404582/1-A	Method Blank	108							
MB 280-404785/1-A	Method Blank	83							

Surrogate Legend

HFPODA = 13C3 HFPO-DA

Method: 8321A - HFPO-DA

Lab Sample ID: DLCK 280-404345/13
Matrix: Water
Analysis Batch: 404345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA			0.250	<0.50		ug/L		90	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C3 HFPO-DA	*104*		*50 - 200*

Lab Sample ID: MB 280-404518/1-A
Matrix: Water
Analysis Batch: 404641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 404518

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:54	02/12/18 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*74*		*50 - 200*	*02/09/18 20:54*	*02/12/18 13:42*	*1*

Lab Sample ID: LCS 280-404518/2-A
Matrix: Water
Analysis Batch: 404641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 404518

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA			0.200	0.203		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*74*		*50 - 200*

Lab Sample ID: LCSD 280-404518/3-A
Matrix: Water
Analysis Batch: 404641

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 404518

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HFPO-DA			0.200	0.212		ug/L		106	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C3 HFPO-DA	*71*		*50 - 200*

Lab Sample ID: LLCS 280-404518/4-A
Matrix: Water
Analysis Batch: 404641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 404518

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA			0.0200	0.0223		ug/L		111	70 - 130

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C3 HFPO-DA	*73*		*50 - 200*

Method: 8321A - HFPO-DA (Continued)

Lab Sample ID: 280-106036-2 MS — **Client Sample ID: FAY-D-6476TABOR-W1-1-020118**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404641 — **Prep Batch: 404518**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.036		0.176	0.237		ug/L		115	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
13C3 HFPO-DA	*63*		*50 - 200*

Lab Sample ID: 280-106036-2 DU — **Client Sample ID: FAY-D-6476TABOR-W1-1-020118**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404641 — **Prep Batch: 404518**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
HFPO-DA	0.036		0.0395		ug/L		10	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
13C3 HFPO-DA	*66*		*50 - 200*

Lab Sample ID: MB 280-404551/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404642 — **Prep Batch: 404551**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/11/18 11:55	02/12/18 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*72*		*50 - 200*	*02/11/18 11:55*	*02/12/18 14:41*	*1*

Lab Sample ID: LCS 280-404551/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404642 — **Prep Batch: 404551**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.200	0.202		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*74*		*50 - 200*

Lab Sample ID: LCSD 280-404551/4-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404642 — **Prep Batch: 404551**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HFPO-DA	0.200	0.192		ug/L		96	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C3 HFPO-DA	*79*		*50 - 200*

Method: 8321A - HFPO-DA (Continued)

Lab Sample ID: LLCS 280-404551/3-A
Matrix: Water
Analysis Batch: 404642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 404551

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
HFPO-DA			0.0200	0.0173		ug/L		86	70 - 130		

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C3 HFPO-DA	*82*		*50 - 200*

Lab Sample ID: 280-106036-11 MS
Matrix: Water
Analysis Batch: 404642

Client Sample ID: FAY-D-5049MATTH-W1-1-020118
Prep Type: Total/NA
Prep Batch: 404551

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
HFPO-DA	0.11		0.181	0.280		ug/L		94	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
13C3 HFPO-DA	*76*		*50 - 200*

Lab Sample ID: 280-106036-11 DU
Matrix: Water
Analysis Batch: 404642

Client Sample ID: FAY-D-5049MATTH-W1-1-020118
Prep Type: Total/NA
Prep Batch: 404551

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
HFPO-DA	0.11			0.111		ug/L				1	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
13C3 HFPO-DA	*73*		*50 - 200*

Lab Sample ID: MB 280-404556/1-A
Matrix: Water
Analysis Batch: 404643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 404556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/11/18 19:22	02/12/18 16:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*77*		*50 - 200*	*02/11/18 19:22*	*02/12/18 16:02*	*1*

Lab Sample ID: LCS 280-404556/2-A
Matrix: Water
Analysis Batch: 404643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 404556

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
HFPO-DA			0.200	0.192		ug/L		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*78*		*50 - 200*

Method: 8321A - HFPO-DA (Continued)

Lab Sample ID: LCSD 280-404556/3-A
Matrix: Water
Analysis Batch: 404643

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 404556

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HFPO-DA	0.200	0.202		ug/L		101	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C3 HFPO-DA	*75*		*50 - 200*

Lab Sample ID: LLCS 280-404556/4-A
Matrix: Water
Analysis Batch: 404643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 404556

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.0200	0.0186		ug/L		93	70 - 130

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C3 HFPO-DA	*76*		*50 - 200*

Lab Sample ID: MB 280-404557/1-A
Matrix: Water
Analysis Batch: 404644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 404557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/11/18 19:44	02/12/18 17:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*81*		*50 - 200*	*02/11/18 19:44*	*02/12/18 17:36*	*1*

Lab Sample ID: LCS 280-404557/2-A
Matrix: Water
Analysis Batch: 404644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 404557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.200	0.191		ug/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*78*		*50 - 200*

Lab Sample ID: LCSD 280-404557/3-A
Matrix: Water
Analysis Batch: 404644

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 404557

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HFPO-DA	0.200	0.203		ug/L		102	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C3 HFPO-DA	*78*		*50 - 200*

Method: 8321A - HFPO-DA (Continued)

Lab Sample ID: LLCS 280-404557/4-A
Matrix: Water
Analysis Batch: 404644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 404557

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.0200	0.0190		ug/L		95	70 - 130

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C3 HFPO-DA	*84*		*50 - 200*

Lab Sample ID: MB 280-404582/1-A
Matrix: Water
Analysis Batch: 404879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 404582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/12/18 08:23	02/13/18 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*108*		*50 - 200*	*02/12/18 08:23*	*02/13/18 12:26*	*1*

Lab Sample ID: LCS 280-404582/2-A
Matrix: Water
Analysis Batch: 404879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 404582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.200	0.157		ug/L		78	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*112*		*50 - 200*

Lab Sample ID: LCSD 280-404582/3-A
Matrix: Water
Analysis Batch: 404879

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 404582

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HFPO-DA	0.200	0.157		ug/L		78	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C3 HFPO-DA	*112*		*50 - 200*

Lab Sample ID: LLCS 280-404582/4-A
Matrix: Water
Analysis Batch: 404879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 404582

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.0200	0.0167		ug/L		83	70 - 130

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C3 HFPO-DA	*119*		*50 - 200*

Method: 8321A - HFPO-DA (Continued)

Lab Sample ID: MB 280-404785/1-A
Matrix: Water
Analysis Batch: 405022

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 404785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/13/18 11:30	02/14/18 08:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*83*		*50 - 200*	*02/13/18 11:30*	*02/14/18 08:03*	*1*

Lab Sample ID: LCS 280-404785/2-A
Matrix: Water
Analysis Batch: 405022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 404785

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.200	0.201		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*79*		*50 - 200*

Lab Sample ID: LCSD 280-404785/4-A
Matrix: Water
Analysis Batch: 405022

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 404785

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HFPO-DA	0.200	0.192		ug/L		96	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C3 HFPO-DA	*82*		*50 - 200*

Lab Sample ID: LLCS 280-404785/3-A
Matrix: Water
Analysis Batch: 405022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 404785

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.0200	0.0178		ug/L		89	70 - 130

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C3 HFPO-DA	*84*		*50 - 200*

Lab Sample ID: 280-106036-38 MS
Matrix: Water
Analysis Batch: 405022

Client Sample ID: FAY-D-3322DANDE-W1-1-020118
Prep Type: Total/NA
Prep Batch: 404785

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	<0.010		0.167	0.157		ug/L		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
13C3 HFPO-DA	*83*		*50 - 200*

Method: 8321A - HFPO-DA (Continued)

Lab Sample ID: 280-106036-38 DU
Client Sample ID: FAY-D-3322DANDE-W1-1-020118
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 405022
Prep Batch: 404785

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
HFPO-DA	<0.010			<0.010		ug/L				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
13C3 HFPO-DA	*78*		*50 - 200*

LCMS

Analysis Batch: 404345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-404345/13	Lab Control Sample	Total/NA	Water	8321A	

Prep Batch: 404518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106036-1	FAY-D-6377TABOR-W1-1-020118	Total/NA	Water	3535	
280-106036-2	FAY-D-6476TABOR-W1-1-020118	Total/NA	Water	3535	
MB 280-404518/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-404518/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-404518/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
LLCS 280-404518/4-A	Lab Control Sample	Total/NA	Water	3535	
280-106036-2 MS	FAY-D-6476TABOR-W1-1-020118	Total/NA	Water	3535	
280-106036-2 DU	FAY-D-6476TABOR-W1-1-020118	Total/NA	Water	3535	

Prep Batch: 404551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106036-3	FAY-D-6476TABOR-W1-1-020118-D	Total/NA	Water	3535	
280-106036-4	FAY-D-6644TABOR-W1-1-020118	Total/NA	Water	3535	
280-106036-5	FAY-D-6644TABOR-W2-1-020118	Total/NA	Water	3535	
280-106036-6	FAY-D-6808TABOR-W1-1-020118	Total/NA	Water	3535	
280-106036-7	FAY-D-6838TABOR-W1-1-020118	Total/NA	Water	3535	
280-106036-8	FAY-D-6838TABOR-W2-1-020118	Total/NA	Water	3535	
280-106036-9	FAY-D-6858TABOR-W1-1-020118	Total/NA	Water	3535	
280-106036-10	FAY-D-7047TABOR-W1-1-020118	Total/NA	Water	3535	
280-106036-11	FAY-D-5049MATTH-W1-1-020118	Total/NA	Water	3535	
280-106036-12	FAY-D-7646TABOR-W1-1-02018	Total/NA	Water	3535	
280-106036-13	FAY-D-6731BUTLE-W1-1-020118	Total/NA	Water	3535	
280-106036-14	FAY-D-6731BUTLE-W1-2-020118	Total/NA	Water	3535	
280-106036-15	FAY-D-6815BUTLE-W1-1-020118	Total/NA	Water	3535	
280-106036-16	FAY-D-6893BUTLE-W1-1-020118	Total/NA	Water	3535	
280-106036-17	FAY-D-5018MRSHR-W1-1-020118	Total/NA	Water	3535	
280-106036-18	FAY-D-5018MRSHR-W1-2-020118	Total/NA	Water	3535	
MB 280-404551/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-404551/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-404551/4-A	Lab Control Sample Dup	Total/NA	Water	3535	
LLCS 280-404551/3-A	Lab Control Sample	Total/NA	Water	3535	
280-106036-11 MS	FAY-D-5049MATTH-W1-1-020118	Total/NA	Water	3535	
280-106036-11 DU	FAY-D-5049MATTH-W1-1-020118	Total/NA	Water	3535	

Prep Batch: 404556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106036-19	FAY-D-5021MRSHR-W1-1-020118	Total/NA	Water	3535	
280-106036-20	FAY-D-5021MRSHR-W1-2-020118	Total/NA	Water	3535	
280-106036-21	FAY-D-4065SPNSH-W1-1-020118	Total/NA	Water	3535	
280-106036-22	FAY-D-4065SPNSH-W1-2-020118	Total/NA	Water	3535	
MB 280-404556/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-404556/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-404556/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
LLCS 280-404556/4-A	Lab Control Sample	Total/NA	Water	3535	

LCMS (Continued)

Prep Batch: 404557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106036-23	FAY-D-4057SPNSH-W1-1-020118	Total/NA	Water	3535	
280-106036-24	FAY-D-7265NC87H-W1-1-020118	Total/NA	Water	3535	
280-106036-25	FAY-D-7394NC87H-W1-1-020118	Total/NA	Water	3535	
280-106036-26	FAY-D-6711CHKFT-W1-1-020118	Total/NA	Water	3535	
MB 280-404557/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-404557/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-404557/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
LLCS 280-404557/4-A	Lab Control Sample	Total/NA	Water	3535	

Prep Batch: 404582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106036-39	FAY-D-3322DANDE-W1-1-020118D	Total/NA	Water	3535	
280-106036-40	FAY-D-4057SPNSH-W1-2-020118	Total/NA	Water	3535	
280-106036-41	FAY-D-5085MRSHR-W1-1-020118	Total/NA	Water	3535	
280-106036-42	FAY-D-FB-020118	Total/NA	Water	3535	
280-106036-43	FAY-D-FB-020118-A	Total/NA	Water	3535	
MB 280-404582/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-404582/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-404582/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
LLCS 280-404582/4-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 404641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106036-1	FAY-D-6377TABOR-W1-1-020118	Total/NA	Water	8321A	404518
280-106036-2	FAY-D-6476TABOR-W1-1-020118	Total/NA	Water	8321A	404518
MB 280-404518/1-A	Method Blank	Total/NA	Water	8321A	404518
LCS 280-404518/2-A	Lab Control Sample	Total/NA	Water	8321A	404518
LCSD 280-404518/3-A	Lab Control Sample Dup	Total/NA	Water	8321A	404518
LLCS 280-404518/4-A	Lab Control Sample	Total/NA	Water	8321A	404518
280-106036-2 MS	FAY-D-6476TABOR-W1-1-020118	Total/NA	Water	8321A	404518
280-106036-2 DU	FAY-D-6476TABOR-W1-1-020118	Total/NA	Water	8321A	404518

Analysis Batch: 404642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106036-3	FAY-D-6476TABOR-W1-1-020118-D	Total/NA	Water	8321A	404551
280-106036-4	FAY-D-6644TABOR-W1-1-020118	Total/NA	Water	8321A	404551
280-106036-5	FAY-D-6644TABOR-W2-1-020118	Total/NA	Water	8321A	404551
280-106036-6	FAY-D-6808TABOR-W1-1-020118	Total/NA	Water	8321A	404551
280-106036-7	FAY-D-6838TABOR-W1-1-020118	Total/NA	Water	8321A	404551
280-106036-8	FAY-D-6838TABOR-W2-1-020118	Total/NA	Water	8321A	404551
280-106036-9	FAY-D-6858TABOR-W1-1-020118	Total/NA	Water	8321A	404551
280-106036-10	FAY-D-7047TABOR-W1-1-020118	Total/NA	Water	8321A	404551
280-106036-11	FAY-D-5049MATTH-W1-1-020118	Total/NA	Water	8321A	404551
280-106036-12	FAY-D-7646TABOR-W1-1-02018	Total/NA	Water	8321A	404551
280-106036-13	FAY-D-6731BUTLE-W1-1-020118	Total/NA	Water	8321A	404551
280-106036-14	FAY-D-6731BUTLE-W1-2-020118	Total/NA	Water	8321A	404551
280-106036-15	FAY-D-6815BUTLE-W1-1-020118	Total/NA	Water	8321A	404551
280-106036-16	FAY-D-6893BUTLE-W1-1-020118	Total/NA	Water	8321A	404551
280-106036-17	FAY-D-5018MRSHR-W1-1-020118	Total/NA	Water	8321A	404551
280-106036-18	FAY-D-5018MRSHR-W1-2-020118	Total/NA	Water	8321A	404551
MB 280-404551/1-A	Method Blank	Total/NA	Water	8321A	404551

LCMS (Continued)

Analysis Batch: 404642 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-404551/2-A	Lab Control Sample	Total/NA	Water	8321A	404551
LCSD 280-404551/4-A	Lab Control Sample Dup	Total/NA	Water	8321A	404551
LLCS 280-404551/3-A	Lab Control Sample	Total/NA	Water	8321A	404551
280-106036-11 MS	FAY-D-5049MATTH-W1-1-020118	Total/NA	Water	8321A	404551
280-106036-11 DU	FAY-D-5049MATTH-W1-1-020118	Total/NA	Water	8321A	404551

Analysis Batch: 404643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106036-19	FAY-D-5021MRSHR-W1-1-020118	Total/NA	Water	8321A	404556
280-106036-20	FAY-D-5021MRSHR-W1-2-020118	Total/NA	Water	8321A	404556
280-106036-21	FAY-D-4065SPNSH-W1-1-020118	Total/NA	Water	8321A	404556
280-106036-22	FAY-D-4065SPNSH-W1-2-020118	Total/NA	Water	8321A	404556
MB 280-404556/1-A	Method Blank	Total/NA	Water	8321A	404556
LCS 280-404556/2-A	Lab Control Sample	Total/NA	Water	8321A	404556
LCSD 280-404556/3-A	Lab Control Sample Dup	Total/NA	Water	8321A	404556
LLCS 280-404556/4-A	Lab Control Sample	Total/NA	Water	8321A	404556

Analysis Batch: 404644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106036-23	FAY-D-4057SPNSH-W1-1-020118	Total/NA	Water	8321A	404557
280-106036-24	FAY-D-7265NC87H-W1-1-020118	Total/NA	Water	8321A	404557
280-106036-25	FAY-D-7394NC87H-W1-1-020118	Total/NA	Water	8321A	404557
280-106036-26	FAY-D-6711CHKFT-W1-1-020118	Total/NA	Water	8321A	404557
MB 280-404557/1-A	Method Blank	Total/NA	Water	8321A	404557
LCS 280-404557/2-A	Lab Control Sample	Total/NA	Water	8321A	404557
LCSD 280-404557/3-A	Lab Control Sample Dup	Total/NA	Water	8321A	404557
LLCS 280-404557/4-A	Lab Control Sample	Total/NA	Water	8321A	404557

Prep Batch: 404785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106036-27	FAY-D-6416CHKFT-W1-1-020118	Total/NA	Water	3535	
280-106036-28	FAY-D-6591BUTLE-W1-1-020118	Total/NA	Water	3535	
280-106036-29	FAY-D-7149BUTLE-W1-1-020118	Total/NA	Water	3535	
280-106036-30	FAY-D-7243BUTLE-W1-1-020118	Total/NA	Water	3535	
280-106036-31	FAY-D-5049MATTH-W1-1-020118-D	Total/NA	Water	3535	
280-106036-32	FAY-D-7609TABOR-W1-1-020118	Total/NA	Water	3535	
280-106036-33	FAY-D-7741TABOR-W1-1-020118	Total/NA	Water	3535	
280-106036-34	FAY-D-FB-020118-B	Total/NA	Water	3535	
280-106036-35	FAY-D-47MAUDI-W1-1-020118	Total/NA	Water	3535	
280-106036-36	FAY-D-47MAUDI-W1-2-020118	Total/NA	Water	3535	
280-106036-37	FAY-D-1123NC20H-W1-1-020118	Total/NA	Water	3535	
280-106036-38	FAY-D-3322DANDE-W1-1-020118	Total/NA	Water	3535	
MB 280-404785/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-404785/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-404785/4-A	Lab Control Sample Dup	Total/NA	Water	3535	
LLCS 280-404785/3-A	Lab Control Sample	Total/NA	Water	3535	
280-106036-38 MS	FAY-D-3322DANDE-W1-1-020118	Total/NA	Water	3535	
280-106036-38 DU	FAY-D-3322DANDE-W1-1-020118	Total/NA	Water	3535	

LCMS (Continued)

Analysis Batch: 404879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106036-39	FAY-D-3322DANDE-W1-1-020118D	Total/NA	Water	8321A	404582
280-106036-40	FAY-D-4057SPNSH-W1-2-020118	Total/NA	Water	8321A	404582
280-106036-41	FAY-D-5085MRSHR-W1-1-020118	Total/NA	Water	8321A	404582
280-106036-42	FAY-D-FB-020118	Total/NA	Water	8321A	404582
280-106036-43	FAY-D-FB-020118-A	Total/NA	Water	8321A	404582
MB 280-404582/1-A	Method Blank	Total/NA	Water	8321A	404582
LCS 280-404582/2-A	Lab Control Sample	Total/NA	Water	8321A	404582
LCSD 280-404582/3-A	Lab Control Sample Dup	Total/NA	Water	8321A	404582
LLCS 280-404582/4-A	Lab Control Sample	Total/NA	Water	8321A	404582

Analysis Batch: 405022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106036-27	FAY-D-6416CHKFT-W1-1-020118	Total/NA	Water	8321A	404785
280-106036-28	FAY-D-6591BUTLE-W1-1-020118	Total/NA	Water	8321A	404785
280-106036-29	FAY-D-7149BUTLE-W1-1-020118	Total/NA	Water	8321A	404785
280-106036-30	FAY-D-7243BUTLE-W1-1-020118	Total/NA	Water	8321A	404785
280-106036-31	FAY-D-5049MATTH-W1-1-020118-D	Total/NA	Water	8321A	404785
280-106036-32	FAY-D-7609TABOR-W1-1-020118	Total/NA	Water	8321A	404785
280-106036-33	FAY-D-7741TABOR-W1-1-020118	Total/NA	Water	8321A	404785
280-106036-34	FAY-D-FB-020118-B	Total/NA	Water	8321A	404785
280-106036-35	FAY-D-47MAUDI-W1-1-020118	Total/NA	Water	8321A	404785
280-106036-36	FAY-D-47MAUDI-W1-2-020118	Total/NA	Water	8321A	404785
280-106036-37	FAY-D-1123NC20H-W1-1-020118	Total/NA	Water	8321A	404785
280-106036-38	FAY-D-3322DANDE-W1-1-020118	Total/NA	Water	8321A	404785
MB 280-404785/1-A	Method Blank	Total/NA	Water	8321A	404785
LCS 280-404785/2-A	Lab Control Sample	Total/NA	Water	8321A	404785
LCSD 280-404785/4-A	Lab Control Sample Dup	Total/NA	Water	8321A	404785
LLCS 280-404785/3-A	Lab Control Sample	Total/NA	Water	8321A	404785
280-106036-38 MS	FAY-D-3322DANDE-W1-1-020118	Total/NA	Water	8321A	404785
280-106036-38 DU	FAY-D-3322DANDE-W1-1-020118	Total/NA	Water	8321A	404785

Client Sample ID: FAY-D-6377TABOR-W1-1-020118

Lab Sample ID: 280-106036-1
Date Collected: 02/01/18 08:47
Matrix: Water
Date Received: 02/02/18 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			279.5 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 13:55	AGCM	TAL DEN

Client Sample ID: FAY-D-6476TABOR-W1-1-020118

Lab Sample ID: 280-106036-2
Date Collected: 02/01/18 09:22
Matrix: Water
Date Received: 02/02/18 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			274 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 13:58	AGCM	TAL DEN

Client Sample ID: FAY-D-6476TABOR-W1-1-020118-D

Lab Sample ID: 280-106036-3
Date Collected: 02/01/18 09:22
Matrix: Water
Date Received: 02/02/18 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			275.9 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 14:53	AGCM	TAL DEN

Client Sample ID: FAY-D-6644TABOR-W1-1-020118

Lab Sample ID: 280-106036-4
Date Collected: 02/01/18 09:56
Matrix: Water
Date Received: 02/02/18 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			264.9 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 14:57	AGCM	TAL DEN

Client Sample ID: FAY-D-6644TABOR-W2-1-020118

Lab Sample ID: 280-106036-5
Date Collected: 02/01/18 09:57
Matrix: Water
Date Received: 02/02/18 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			293.3 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:03	AGCM	TAL DEN

Client Sample ID: FAY-D-6808TABOR-W1-1-020118

Lab Sample ID: 280-106036-6
Date Collected: 02/01/18 10:45
Matrix: Water
Date Received: 02/02/18 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			273.9 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:06	AGCM	TAL DEN

Client Sample ID: FAY-D-6838TABOR-W1-1-020118 — Lab Sample ID: 280-106036-7

Date Collected: 02/01/18 11:03
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			271.5 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:10	AGCM	TAL DEN

Client Sample ID: FAY-D-6838TABOR-W2-1-020118 — Lab Sample ID: 280-106036-8

Date Collected: 02/01/18 11:04
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			281.2 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:13	AGCM	TAL DEN

Client Sample ID: FAY-D-6858TABOR-W1-1-020118 — Lab Sample ID: 280-106036-9

Date Collected: 02/01/18 11:13
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			301.4 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:16	AGCM	TAL DEN

Client Sample ID: FAY-D-7047TABOR-W1-1-020118 — Lab Sample ID: 280-106036-10

Date Collected: 02/01/18 11:51
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			276.9 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:19	AGCM	TAL DEN

Client Sample ID: FAY-D-5049MATTH-W1-1-020118 — Lab Sample ID: 280-106036-11

Date Collected: 02/01/18 13:48
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			287.7 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:23	AGCM	TAL DEN

Client Sample ID: FAY-D-7646TABOR-W1-1-02018 — Lab Sample ID: 280-106036-12

Date Collected: 02/01/18 14:55
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			282.4 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:32	AGCM	TAL DEN

Client Sample ID: FAY-D-6731BUTLE-W1-1-020118 — Lab Sample ID: 280-106036-13

Date Collected: 02/01/18 08:24
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			293.9 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:39	AGCM	TAL DEN

Client Sample ID: FAY-D-6731BUTLE-W1-2-020118 — Lab Sample ID: 280-106036-14

Date Collected: 02/01/18 08:26
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			289.4 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:42	AGCM	TAL DEN

Client Sample ID: FAY-D-6815BUTLE-W1-1-020118 — Lab Sample ID: 280-106036-15

Date Collected: 02/01/18 08:53
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			272.2 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:45	AGCM	TAL DEN

Client Sample ID: FAY-D-6893BUTLE-W1-1-020118 — Lab Sample ID: 280-106036-16

Date Collected: 02/01/18 09:44
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			287.5 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:49	AGCM	TAL DEN

Client Sample ID: FAY-D-5018MRSHR-W1-1-020118 — Lab Sample ID: 280-106036-17

Date Collected: 02/01/18 11:13
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			292.2 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:52	AGCM	TAL DEN

Client Sample ID: FAY-D-5018MRSHR-W1-2-020118 — Lab Sample ID: 280-106036-18

Date Collected: 02/01/18 11:13
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			293.3 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:55	AGCM	TAL DEN

Client Sample ID: FAY-D-5021MRSHR-W1-1-020118 — Lab Sample ID: 280-106036-19

Date Collected: 02/01/18 11:44
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			296.6 mL	5 mL	404556	02/11/18 19:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404643	02/12/18 16:15	AGCM	TAL DEN

Client Sample ID: FAY-D-5021MRSHR-W1-2-020118 — Lab Sample ID: 280-106036-20

Date Collected: 02/01/18 11:48
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			288.6 mL	5 mL	404556	02/11/18 19:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404643	02/12/18 16:18	AGCM	TAL DEN

Client Sample ID: FAY-D-4065SPNSH-W1-1-020118 — Lab Sample ID: 280-106036-21

Date Collected: 02/01/18 13:51
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			298.3 mL	5 mL	404556	02/11/18 19:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404643	02/12/18 16:21	AGCM	TAL DEN

Client Sample ID: FAY-D-4065SPNSH-W1-2-020118 — Lab Sample ID: 280-106036-22

Date Collected: 02/01/18 13:55
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			274.7 mL	5 mL	404556	02/11/18 19:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404643	02/12/18 16:25	AGCM	TAL DEN

Client Sample ID: FAY-D-4057SPNSH-W1-1-020118 — Lab Sample ID: 280-106036-23

Date Collected: 02/01/18 14:34
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			278.7 mL	5 mL	404557	02/11/18 19:44	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404644	02/12/18 17:49	AGCM	TAL DEN

Client Sample ID: FAY-D-7265NC87H-W1-1-020118 — Lab Sample ID: 280-106036-24

Date Collected: 02/01/18 09:26
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			285.2 mL	5 mL	404557	02/11/18 19:44	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404644	02/12/18 17:53	AGCM	TAL DEN

Client Sample ID: FAY-D-7394NC87H-W1-1-020118 — Lab Sample ID: 280-106036-25

Date Collected: 02/01/18 10:42
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			281.8 mL	5 mL	404557	02/11/18 19:44	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404644	02/12/18 17:56	AGCM	TAL DEN

Client Sample ID: FAY-D-6711CHKFT-W1-1-020118 — Lab Sample ID: 280-106036-26

Date Collected: 02/01/18 11:52
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			290.1 mL	5 mL	404557	02/11/18 19:44	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404644	02/12/18 17:59	AGCM	TAL DEN

Client Sample ID: FAY-D-6416CHKFT-W1-1-020118 — Lab Sample ID: 280-106036-27

Date Collected: 02/01/18 12:04
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			296.5 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:16	AGCM	TAL DEN

Client Sample ID: FAY-D-6591BUTLE-W1-1-020118 — Lab Sample ID: 280-106036-28

Date Collected: 02/01/18 14:38
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			293.3 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:20	AGCM	TAL DEN

Client Sample ID: FAY-D-7149BUTLE-W1-1-020118 — Lab Sample ID: 280-106036-29

Date Collected: 02/01/18 15:03
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			286.2 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:23	AGCM	TAL DEN

Client Sample ID: FAY-D-7243BUTLE-W1-1-020118 — Lab Sample ID: 280-106036-30

Date Collected: 02/01/18 17:11
Date Received: 02/02/18 09:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			287.8 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:26	AGCM	TAL DEN

Client Sample ID: FAY-D-5049MATTH-W1-1-020118-D

Lab Sample ID: 280-106036-31

Date Collected: 02/01/18 13:48
Date Received: 02/02/18 09:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			274.8 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:30	AGCM	TAL DEN

Client Sample ID: FAY-D-7609TABOR-W1-1-020118

Lab Sample ID: 280-106036-32

Date Collected: 02/01/18 14:41
Date Received: 02/02/18 09:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			277.2 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:33	AGCM	TAL DEN

Client Sample ID: FAY-D-7741TABOR-W1-1-020118

Lab Sample ID: 280-106036-33

Date Collected: 02/01/18 15:08
Date Received: 02/02/18 09:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			272.3 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:39	AGCM	TAL DEN

Client Sample ID: FAY-D-FB-020118-B

Lab Sample ID: 280-106036-34

Date Collected: 02/01/18 17:00
Date Received: 02/02/18 09:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			288.8 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:43	AGCM	TAL DEN

Client Sample ID: FAY-D-47MAUDI-W1-1-020118

Lab Sample ID: 280-106036-35

Date Collected: 02/01/18 09:00
Date Received: 02/02/18 09:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			271.7 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:46	AGCM	TAL DEN

Client Sample ID: FAY-D-47MAUDI-W1-2-020118

Lab Sample ID: 280-106036-36

Date Collected: 02/01/18 09:05
Date Received: 02/02/18 09:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			276.5 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:49	AGCM	TAL DEN

Client Sample ID: FAY-D-1123NC20H-W1-1-020118

Lab Sample ID: 280-106036-37

Date Collected: 02/01/18 09:43
Date Received: 02/02/18 09:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			281.3 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:52	AGCM	TAL DEN

Client Sample ID: FAY-D-3322DANDE-W1-1-020118

Lab Sample ID: 280-106036-38

Date Collected: 02/01/18 16:30
Date Received: 02/02/18 09:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			288.9 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:56	AGCM	TAL DEN

Client Sample ID: FAY-D-3322DANDE-W1-1-020118D

Lab Sample ID: 280-106036-39

Date Collected: 02/01/18 16:30
Date Received: 02/02/18 09:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			251.2 mL	5 mL	404582	02/12/18 08:23	HMA	TAL DEN
Total/NA	Analysis	8321A		1			404879	02/13/18 12:39	AGCM	TAL DEN

Client Sample ID: FAY-D-4057SPNSH-W1-2-020118

Lab Sample ID: 280-106036-40

Date Collected: 02/01/18 14:35
Date Received: 02/02/18 09:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			251.9 mL	5 mL	404582	02/12/18 08:23	HMA	TAL DEN
Total/NA	Analysis	8321A		1			404879	02/13/18 12:42	AGCM	TAL DEN

Client Sample ID: FAY-D-5085MRSHR-W1-1-020118

Lab Sample ID: 280-106036-41

Date Collected: 02/01/18 17:10
Date Received: 02/02/18 09:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250.9 mL	5 mL	404582	02/12/18 08:23	HMA	TAL DEN
Total/NA	Analysis	8321A		1			404879	02/13/18 12:45	AGCM	TAL DEN

Client Sample ID: FAY-D-FB-020118

Lab Sample ID: 280-106036-42

Date Collected: 02/01/18 07:55
Date Received: 02/02/18 09:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			248.5 mL	5 mL	404582	02/12/18 08:23	HMA	TAL DEN
Total/NA	Analysis	8321A		1			404879	02/13/18 12:49	AGCM	TAL DEN

Client Sample ID: FAY-D-FB-020118-A

Lab Sample ID: 280-106036-43

Date Collected: 02/01/18 13:00
Date Received: 02/02/18 09:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			246.8 mL	5 mL	404582	02/12/18 08:23	HMA	TAL DEN
Total/NA	Analysis	8321A		1			404879	02/13/18 12:52	AGCM	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-404518/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 13:42	AGCM	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-404551/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 14:41	AGCM	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-404556/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404556	02/11/18 19:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404643	02/12/18 16:02	AGCM	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-404557/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404557	02/11/18 19:44	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404644	02/12/18 17:36	AGCM	TAL DEN

Client Sample ID: Method Blank

Lab Sample ID: MB 280-404582/1-A

Date Collected: N/A
Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404582	02/12/18 08:23	HMA	TAL DEN
Total/NA	Analysis	8321A		1			404879	02/13/18 12:26	AGCM	TAL DEN

Client Sample ID: Method Blank — Lab Sample ID: MB 280-404785/1-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:03	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: DLCK 280-404345/13

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8321A		1			404345	02/08/18 13:38	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 280-404518/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 13:45	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 280-404551/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 14:44	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 280-404556/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404556	02/11/18 19:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404643	02/12/18 16:05	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 280-404557/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404557	02/11/18 19:44	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404644	02/12/18 17:40	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 280-404582/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404582	02/12/18 08:23	HMA	TAL DEN
Total/NA	Analysis	8321A		1			404879	02/13/18 12:29	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 280-404785/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:07	AGCM	TAL DEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 280-404518/3-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 13:48	AGCM	TAL DEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 280-404551/4-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 14:50	AGCM	TAL DEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 280-404556/3-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404556	02/11/18 19:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404643	02/12/18 16:08	AGCM	TAL DEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 280-404557/3-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404557	02/11/18 19:44	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404644	02/12/18 17:43	AGCM	TAL DEN

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 280-404582/3-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404582	02/12/18 08:23	HMA	TAL DEN
Total/NA	Analysis	8321A		1			404879	02/13/18 12:32	AGCM	TAL DEN

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 280-404785/4-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:13	AGCM	TAL DEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LLCS 280-404518/4-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 13:52	AGCM	TAL DEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LLCS 280-404551/3-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 14:47	AGCM	TAL DEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LLCS 280-404556/4-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404556	02/11/18 19:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404643	02/12/18 16:11	AGCM	TAL DEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LLCS 280-404557/4-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404557	02/11/18 19:44	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404644	02/12/18 17:46	AGCM	TAL DEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LLCS 280-404582/4-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404582	02/12/18 08:23	HMA	TAL DEN
Total/NA	Analysis	8321A		1			404879	02/13/18 12:36	AGCM	TAL DEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LLCS 280-404785/3-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:10	AGCM	TAL DEN

Client Sample ID: FAY-D-6476TABOR-W1-1-020118
Lab Sample ID: 280-106036-2 MS

Date Collected: 02/01/18 09:22
Matrix: Water
Date Received: 02/02/18 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			284.8 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 14:05	AGCM	TAL DEN

Client Sample ID: FAY-D-5049MATTH-W1-1-020118
Lab Sample ID: 280-106036-11 MS

Date Collected: 02/01/18 13:48
Matrix: Water
Date Received: 02/02/18 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			276.4 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:29	AGCM	TAL DEN

Client Sample ID: FAY-D-3322DANDE-W1-1-020118
Lab Sample ID: 280-106036-38 MS

Date Collected: 02/01/18 16:30
Matrix: Water
Date Received: 02/02/18 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			300.2 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 09:02	AGCM	TAL DEN

Client Sample ID: FAY-D-6476TABOR-W1-1-020118
Lab Sample ID: 280-106036-2 DU

Date Collected: 02/01/18 09:22
Matrix: Water
Date Received: 02/02/18 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			270.4 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 14:01	AGCM	TAL DEN

Client Sample ID: FAY-D-5049MATTH-W1-1-020118

Lab Sample ID: 280-106036-11 DU

Date Collected: 02/01/18 13:48
Date Received: 02/02/18 09:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			283.1 mL	5 mL	404551	02/11/18 11:55	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			404642	02/12/18 15:26	AGCM	TAL DEN

Client Sample ID: FAY-D-3322DANDE-W1-1-020118

Lab Sample ID: 280-106036-38 DU

Date Collected: 02/01/18 16:30
Date Received: 02/02/18 09:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			303.3 mL	5 mL	404785	02/13/18 11:30	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405022	02/14/18 08:59	AGCM	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Chemours Company FC, LLC The
TestAmerica Job ID: 280-106036-1
Project/Site: FAY-2018 Residential Sampling

Laboratory: TestAmerica Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
North Carolina (WW/SW)	State Program	4	358	12-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8321A	3535	Water	HFPO-DA

Method Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-106036-1

Method	Method Description	Protocol	Laboratory
8321A	HFPO-DA	SW846	TAL DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-106036-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-106036-1	FAY-D-6377TABOR-W1-1-020118	Water	02/01/18 08:47	02/02/18 09:45
280-106036-2	FAY-D-6476TABOR-W1-1-020118	Water	02/01/18 09:22	02/02/18 09:45
280-106036-3	FAY-D-6476TABOR-W1-1-020118-D	Water	02/01/18 09:22	02/02/18 09:45
280-106036-4	FAY-D-6644TABOR-W1-1-020118	Water	02/01/18 09:56	02/02/18 09:45
280-106036-5	FAY-D-6644TABOR-W2-1-020118	Water	02/01/18 09:57	02/02/18 09:45
280-106036-6	FAY-D-6808TABOR-W1-1-020118	Water	02/01/18 10:45	02/02/18 09:45
280-106036-7	FAY-D-6838TABOR-W1-1-020118	Water	02/01/18 11:03	02/02/18 09:45
280-106036-8	FAY-D-6838TABOR-W2-1-020118	Water	02/01/18 11:04	02/02/18 09:45
280-106036-9	FAY-D-6858TABOR-W1-1-020118	Water	02/01/18 11:13	02/02/18 09:45
280-106036-10	FAY-D-7047TABOR-W1-1-020118	Water	02/01/18 11:51	02/02/18 09:45
280-106036-11	FAY-D-5049MATTH-W1-1-020118	Water	02/01/18 13:48	02/02/18 09:45
280-106036-12	FAY-D-7646TABOR-W1-1-02018	Water	02/01/18 14:55	02/02/18 09:45
280-106036-13	FAY-D-6731BUTLE-W1-1-020118	Water	02/01/18 08:24	02/02/18 09:45
280-106036-14	FAY-D-6731BUTLE-W1-2-020118	Water	02/01/18 08:26	02/02/18 09:45
280-106036-15	FAY-D-6815BUTLE-W1-1-020118	Water	02/01/18 08:53	02/02/18 09:45
280-106036-16	FAY-D-6893BUTLE-W1-1-020118	Water	02/01/18 09:44	02/02/18 09:45
280-106036-17	FAY-D-5018MRSHR-W1-1-020118	Water	02/01/18 11:13	02/02/18 09:45
280-106036-18	FAY-D-5018MRSHR-W1-2-020118	Water	02/01/18 11:13	02/02/18 09:45
280-106036-19	FAY-D-5021MRSHR-W1-1-020118	Water	02/01/18 11:44	02/02/18 09:45
280-106036-20	FAY-D-5021MRSHR-W1-2-020118	Water	02/01/18 11:48	02/02/18 09:45
280-106036-21	FAY-D-4065SPNSH-W1-1-020118	Water	02/01/18 13:51	02/02/18 09:45
280-106036-22	FAY-D-4065SPNSH-W1-2-020118	Water	02/01/18 13:55	02/02/18 09:45
280-106036-23	FAY-D-4057SPNSH-W1-1-020118	Water	02/01/18 14:34	02/02/18 09:45
280-106036-24	FAY-D-7265NC87H-W1-1-020118	Water	02/01/18 09:26	02/02/18 09:45
280-106036-25	FAY-D-7394NC87H-W1-1-020118	Water	02/01/18 10:42	02/02/18 09:45
280-106036-26	FAY-D-6711CHKFT-W1-1-020118	Water	02/01/18 11:52	02/02/18 09:45
280-106036-27	FAY-D-6416CHKFT-W1-1-020118	Water	02/01/18 12:04	02/02/18 09:45
280-106036-28	FAY-D-6591BUTLE-W1-1-020118	Water	02/01/18 14:38	02/02/18 09:45
280-106036-29	FAY-D-7149BUTLE-W1-1-020118	Water	02/01/18 15:03	02/02/18 09:45
280-106036-30	FAY-D-7243BUTLE-W1-1-020118	Water	02/01/18 17:11	02/02/18 09:45
280-106036-31	FAY-D-5049MATTH-W1-1-020118-D	Water	02/01/18 13:48	02/02/18 09:45
280-106036-32	FAY-D-7609TABOR-W1-1-020118	Water	02/01/18 14:41	02/02/18 09:45
280-106036-33	FAY-D-7741TABOR-W1-1-020118	Water	02/01/18 15:08	02/02/18 09:45
280-106036-34	FAY-D-FB-020118-B	Water	02/01/18 17:00	02/02/18 09:45
280-106036-35	FAY-D-47MAUDI-W1-1-020118	Water	02/01/18 09:00	02/02/18 09:45
280-106036-36	FAY-D-47MAUDI-W1-2-020118	Water	02/01/18 09:05	02/02/18 09:45
280-106036-37	FAY-D-1123NC20H-W1-1-020118	Water	02/01/18 09:43	02/02/18 09:45
280-106036-38	FAY-D-3322DANDE-W1-1-020118	Water	02/01/18 16:30	02/02/18 09:45
280-106036-39	FAY-D-3322DANDE-W1-1-020118D	Water	02/01/18 16:30	02/02/18 09:45
280-106036-40	FAY-D-4057SPNSH-W1-2-020118	Water	02/01/18 14:35	02/02/18 09:45
280-106036-41	FAY-D-5085MRSHR-W1-1-020118	Water	02/01/18 17:10	02/02/18 09:45
280-106036-42	FAY-D-FB-020118	Water	02/01/18 07:55	02/02/18 09:45
280-106036-43	FAY-D-FB-020118-A	Water	02/01/18 13:00	02/02/18 09:45

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Instrument ID: LC_LCMS7 Analysis Batch Number: 390728

Lab Sample ID: STD001 280-390728/3 IC Client Sample ID:

Date Analyzed: 10/10/17 09:35 Lab File ID: hfpo717J10026.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.89	Baseline	meyera	10/10/17 11:50

8321A

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Instrument ID: LC_LCMS7 Analysis Batch Number: 404345

Lab Sample ID: STD001 280-404345/3 IC Client Sample ID:

Date Analyzed: 02/08/18 13:05 Lab File ID: hfpo718B08034.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	1.06	Assign Peak	meyera	02/08/18 15:19

Lab Sample ID: STD002 280-404345/4 IC Client Sample ID:

Date Analyzed: 02/08/18 13:08 Lab File ID: hfpo718B08035.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	1.06	Baseline	meyera	02/08/18 15:19

Lab Sample ID: DLCK 280-404345/13 Client Sample ID:

Date Analyzed: 02/08/18 13:38 Lab File ID: hfpo718B08044.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	1.06	Baseline	meyera	02/08/18 15:20

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Instrument ID: LC_LCMS7 Analysis Batch Number: 404641

Lab Sample ID: 280-106036-1 Client Sample ID: FAY-D-6377TABOR-W1-1-020118

Date Analyzed: 02/12/18 13:55 Lab File ID: hfpo718B12068.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.92	Baseline	meyera	02/12/18 14:30

8321A

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Instrument ID: LC_LCMS7 Analysis Batch Number: 404642

Lab Sample ID: 280-106036-5 Client Sample ID: FAY-D-6644TABOR-W2-1-020118

Date Analyzed: 02/12/18 15:03 Lab File ID: hfpo718B12089.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.99	Baseline	meyera	02/13/18 07:47

8321A

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Instrument ID: LC_LCMS7 Analysis Batch Number: 404643

Lab Sample ID: LLCS 280-404556/4-A Client Sample ID:

Date Analyzed: 02/12/18 16:11 Lab File ID: hfpo718B12110.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.92	Baseline	meyera	02/13/18 07:49

Lab Sample ID: 280-106036-19 Client Sample ID: FAY-D-5021MRSHR-W1-1-020118

Date Analyzed: 02/12/18 16:15 Lab File ID: hfpo718B12111.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.93	Baseline	meyera	02/13/18 07:49

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Instrument ID: LC_LCMS7 Analysis Batch Number: 404644

Lab Sample ID: 280-106036-24 Client Sample ID: FAY-D-7265NC87H-W1-1-020118

Date Analyzed: 02/12/18 17:53 Lab File ID: hfpo718B12141.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.92	Baseline	meyera	02/13/18 07:52

8321A

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HFPO I.S._00007	12/12/18	12/12/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00007	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
.13C3 HFPO-DA_00007	08/17/20	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
.13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
.HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-1_00031	10/24/17	10/10/17	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00004	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00003	0.5 uL	HFPO-DA	0.25 ug/L
.HFPO I.S._00004	08/28/18	08/28/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00004	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00004	08/28/18	Wellington Laboratories, Lot M3HFPOADA0616			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00003	01/11/18	01/10/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00003	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00003	12/16/18	Wellington Laboratories, Lot HFPODA0213			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-1_00032	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	0.5 uL	HFPO-DA	0.25 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-2_00032	10/24/17	10/10/17	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00004	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00003	1 uL	HFPO-DA	0.5 ug/L
.HFPO I.S._00004	08/28/18	08/28/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00004	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..13C3 HFPO-DA_00004	08/28/18	Wellington Laboratories, Lot M3HFPOADA0616			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00003	01/11/18	01/10/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00003	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00003	12/16/18	Wellington Laboratories, Lot HFPODA0213			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-2_00033	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	1 uL	HFPO-DA	0.5 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-3_00031	10/24/17	10/10/17	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00004	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00003	2 uL	HFPO-DA	1 ug/L
.HFPO I.S._00004	08/28/18	08/28/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00004	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00004	08/28/18	Wellington Laboratories, Lot M3HFPOADA0616			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00003	01/11/18	01/10/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00003	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00003	12/16/18	Wellington Laboratories, Lot HFPODA0213			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-3_00032	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	2 uL	HFPO-DA	1 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-4_00031	10/24/17	10/10/17	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00004	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					HFPO Spike_00003	4 uL	HFPO-DA	2 ug/L
.HFPO I.S._00004	08/28/18	08/28/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00004	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00004	08/28/18	Wellington Laboratories, Lot M3HFPOADA0616			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00003	01/11/18	01/10/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00003	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00003	12/16/18	Wellington Laboratories, Lot HFPODA0213			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-4_00032	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	4 uL	HFPO-DA	2 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-5_00070	10/24/17	10/10/17	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00004	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00003	10 uL	HFPO-DA	5 ug/L
.HFPO I.S._00004	08/28/18	08/28/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00004	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00004	08/28/18	Wellington Laboratories, Lot M3HFPOADA0616			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00003	01/11/18	01/10/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00003	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00003	12/16/18	Wellington Laboratories, Lot HFPODA0213			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-5_00080	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	10 uL	HFPO-DA	5 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HFPO_CAL-6_00070	10/24/17	10/10/17	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00004	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00003	20 uL	HFPO-DA	10 ug/L
.HFPO I.S._00004	08/28/18	08/28/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00004	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00004	08/28/18	Wellington Laboratories, Lot M3HFPOADA0616			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00003	01/11/18	01/10/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00003	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00003	12/16/18	Wellington Laboratories, Lot HFPODA0213			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-6_00080	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	20 uL	HFPO-DA	10 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-7_00031	10/24/17	10/10/17	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00004	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00003	50 uL	HFPO-DA	25 ug/L
.HFPO I.S._00004	08/28/18	08/28/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00004	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00004	08/28/18	Wellington Laboratories, Lot M3HFPOADA0616			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00003	01/11/18	01/10/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00003	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00003	12/16/18	Wellington Laboratories, Lot HFPODA0213			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-7_00032	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	50 uL	HFPO-DA	25 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-8_00031	10/24/17	10/10/17	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00004	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00003	100 uL	HFPO-DA	50 ug/L
.HFPO I.S._00004	08/28/18	08/28/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00004	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00004	08/28/18	Wellington Laboratories, Lot M3HFPOADA0616			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00003	01/11/18	01/10/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00003	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00003	12/16/18	Wellington Laboratories, Lot HFPODA0213			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-8_00032	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	100 uL	HFPO-DA	50 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-9_00001	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	200 uL	HFPO-DA	100 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_ICV_00032	10/24/17	10/10/17	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00004	20 uL	13C3 HFPO-DA	10 ug/L
					HFPO Spike_00003	4 uL	HFPO-DA	2 ug/L
.HFPO I.S._00004	08/28/18	08/28/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00004	1 mL	13C3 HFPO-DA	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..13C3 HFPO-DA_00004	08/28/18	Wellington Laboratories, Lot M3HFPOADA0616			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
.HFPO Spike_00003	01/11/18	01/10/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00003	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00003	12/16/18	Wellington Laboratories, Lot HFPODA0213			(Purchased Reagent)		HFPO-DA	50 ug/mL

Reagent

13C3 HFPO-DA_00004

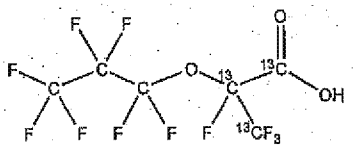
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M3HFPO-DA **LOT NUMBER:** M3HFPODA0616

COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-$^{13}C_3$-propanoic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA:	$^{13}C_3{}^{12}C_3HF_{11}O_3$	**MOLECULAR WEIGHT:**	333.03
CONCENTRATION:	50 ± 2.5 µg/ml	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C ($^{13}C_3$)
LAST TESTED: (mm/dd/yyyy)	06/25/2016		
EXPIRY DATE: (mm/dd/yyyy)	06/25/2019		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 1.5% of two constitutional isomers.
- Product is commercially known as GenX.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: B.G. Chittim **Date:** 06/29/2016 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

ED_002011_00000028-00143

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

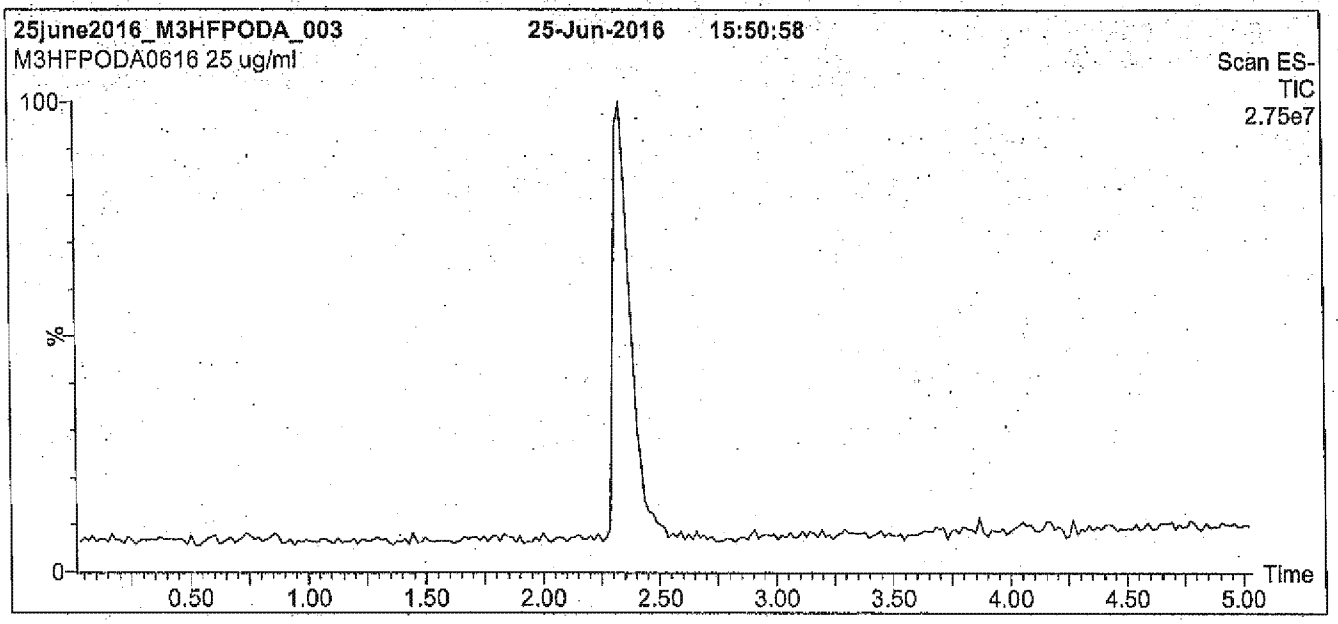
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

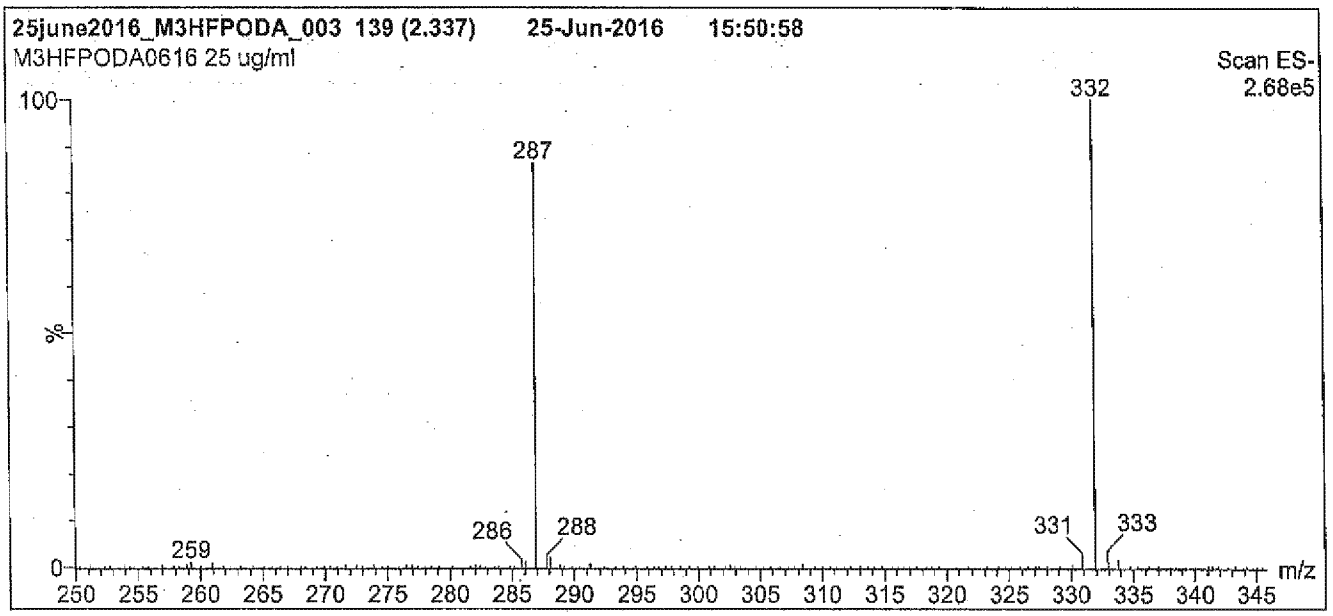
CALA Testing Accreditation per ANAB

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **M3HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**





Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% (80:20 MeOH:ACN) / 50% H_2O
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 7 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.
Time: 10 min

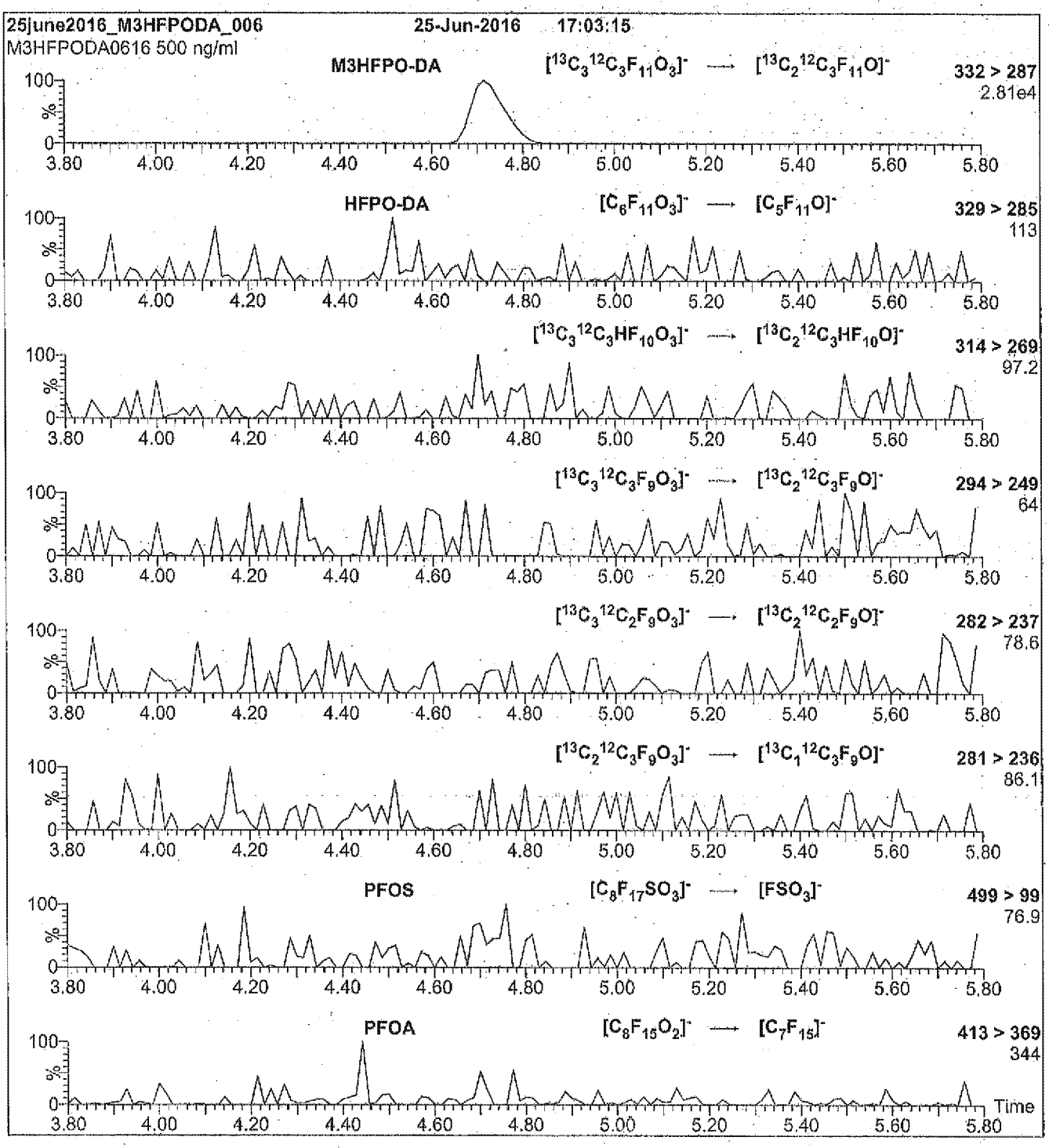
Flow: 300 µl/min

MS Parameters

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 9.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

Figure 2: **M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: Direct loop injection
10 µl (500 ng/ml M3HFPO-DA)

Mobile phase: Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O
(both with 10 mM NH_4OAc buffer)

Flow: 300 µl/min

MS Parameters

Collision Gas (mbar) = 3.46e-3
Collision Energy (eV) = 5

ED_002011_00000028-00146

Reagent

13C3 HFPO-DA_00007

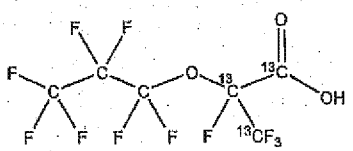
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M3HFPO-DA **LOT NUMBER:** M3HFPODA0817

COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-$^{13}C_3$-propanoic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA:	$^{13}C_3{}^{12}C_3HF_{11}O_3$	**MOLECULAR WEIGHT:**	333.03
CONCENTRATION:	50 ± 2.5 µg/ml	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C ($^{13}C_3$)
LAST TESTED: (mm/dd/yyyy)	08/17/2017		
EXPIRY DATE: (mm/dd/yyyy)	08/17/2020		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 1.5% of two constitutional isomers.
- Product is commercially known as GenX.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 08/25/2017 (mm/dd/yyyy)

B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

ED_002011_00000028-00148

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

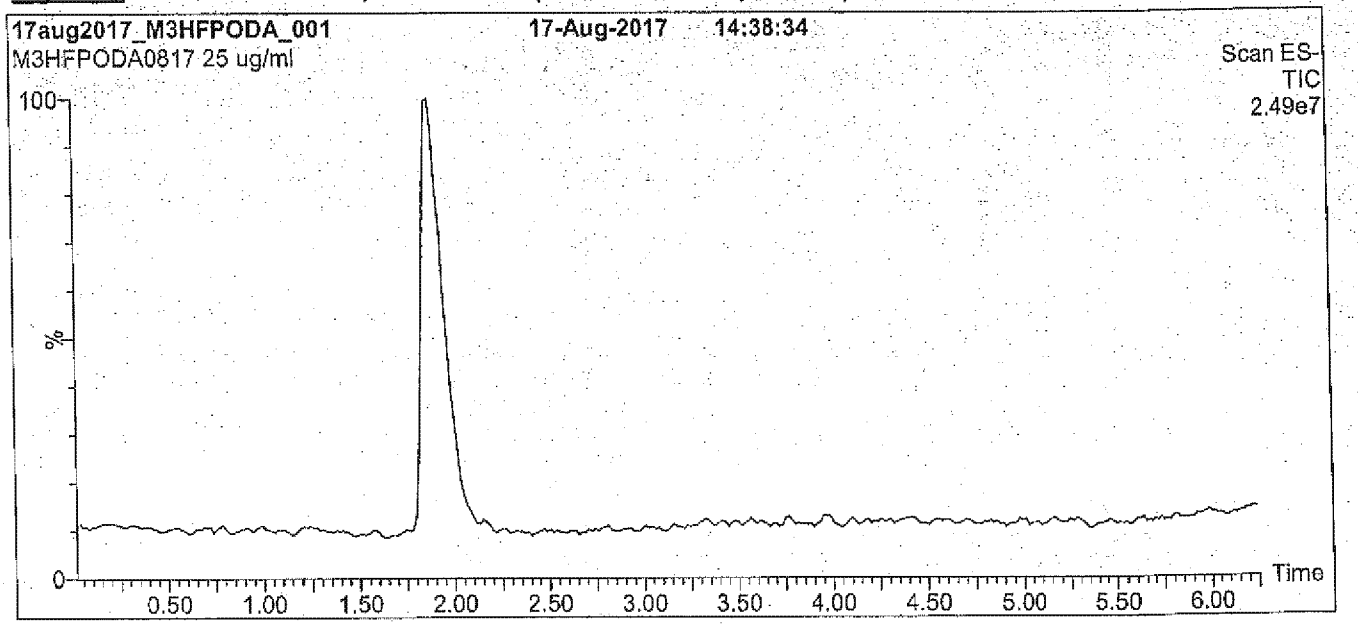
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

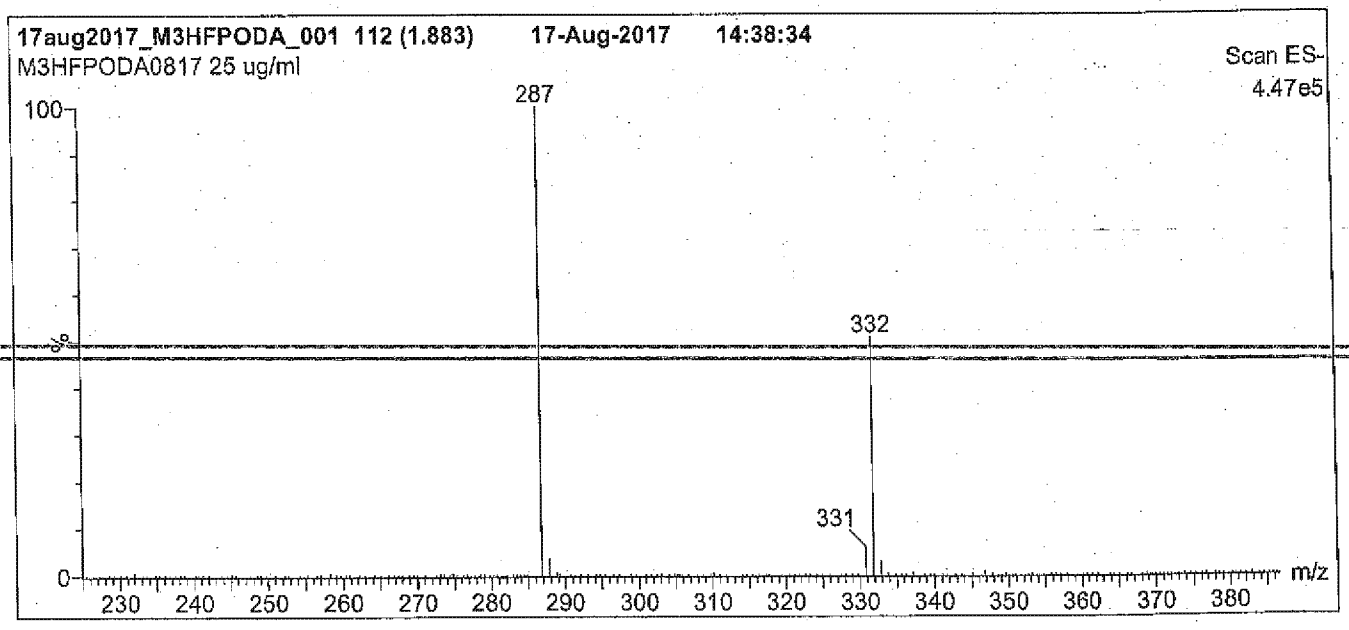
CALA Testing Accreditation No. A3226

ANAB ACCREDITED ISO 17025 ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **M3HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**





Conditions for Figure 1:

LC: Waters Acquity Ultra Performance LC
MS: Micromass Quattro *micro* API MS

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% MeOH / 45% H_2O with 10 mM NH_4OAc buffer
Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.

Time: 10 min

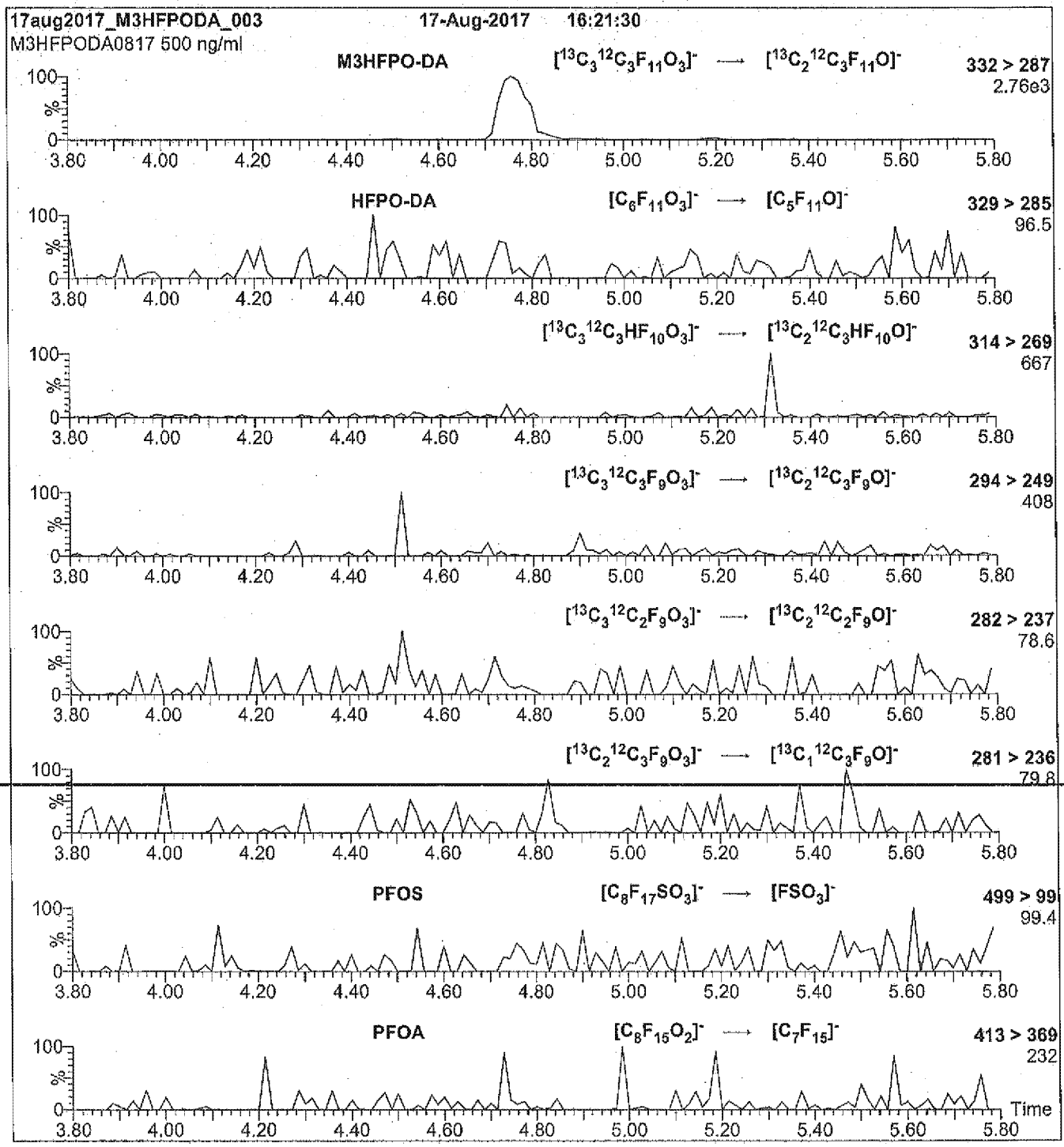
Flow: 300 µl/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 10.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

Figure 2: **M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: Direct loop injection
10 µl (500 ng/ml M3HFPO-DA)

Mobile phase: Isocratic 80% MeOH / 20% H_2O with 10 mM NH_4OAc buffer

Flow: 300 µl/min

MS Parameters

Collision Gas (mbar) = 3.24e-3
Collision Energy (eV) = 5

Reagent

13C3 HFPO-DA_00008

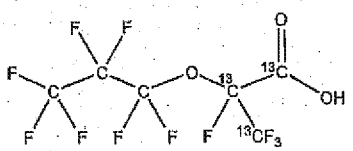
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M3HFPO-DA **LOT NUMBER:** M3HFPODA0817

COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-$^{13}C_3$-propanoic acid

STRUCTURE: **CAS #:** Not available



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ED_002011_00000028-00153

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CALA Testing Accreditation No. A3226

ANAB ACCREDITED Reference Material Producer

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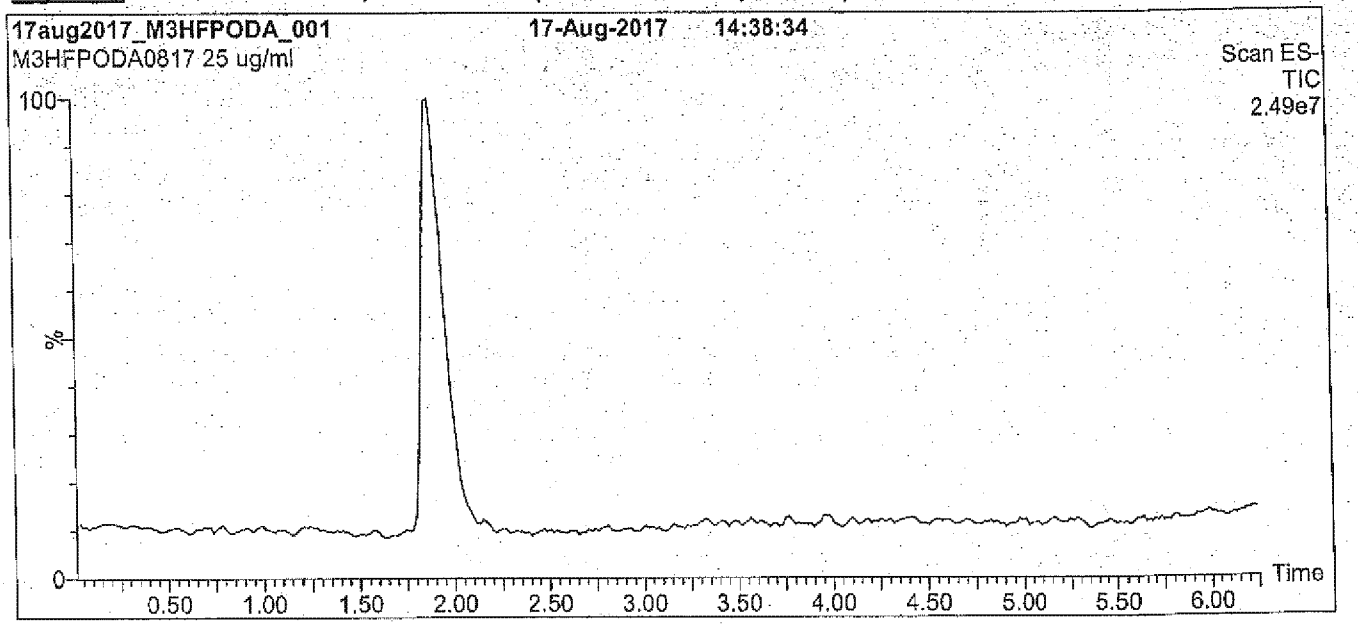

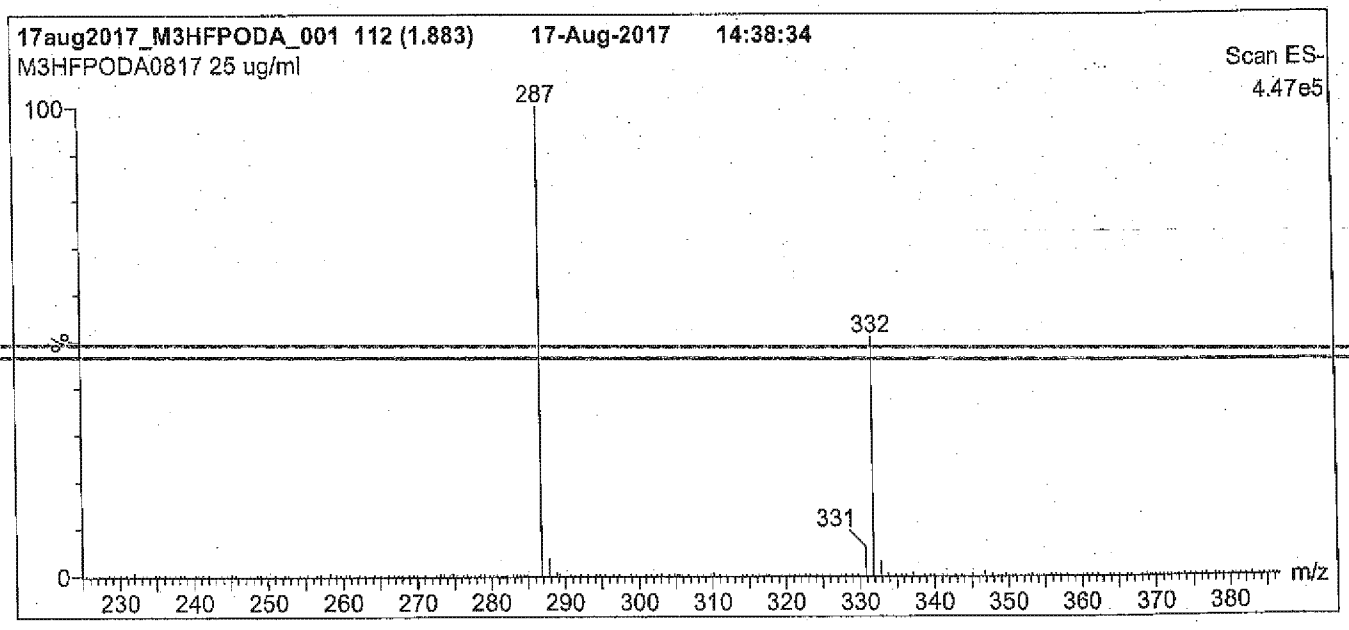

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Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.

Time: 10 min

Flow: 300 µl/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
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Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

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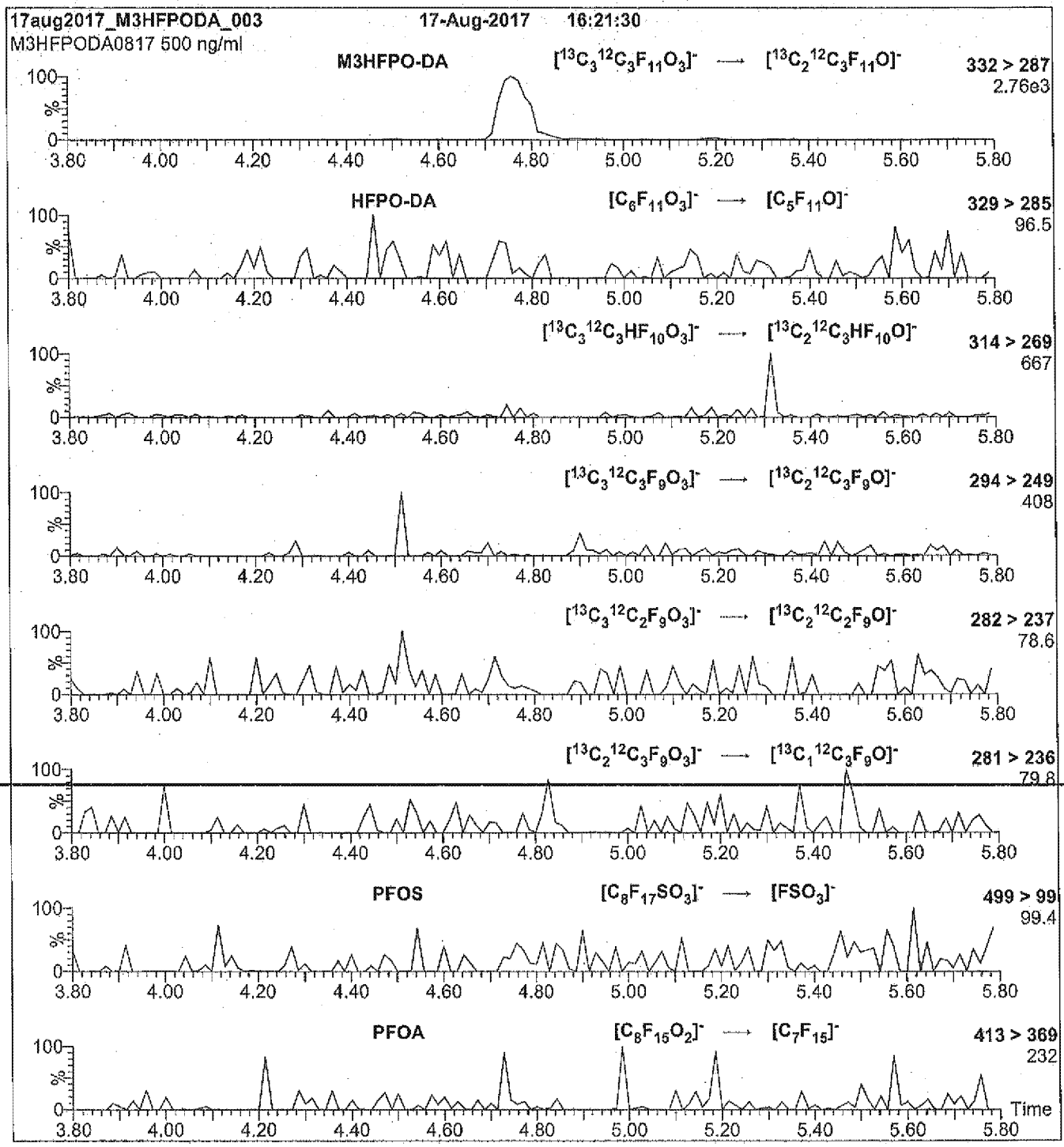


Conditions for Figure 2:

Injection: Direct loop injection
10 µl (500 ng/ml M3HFPO-DA)

Mobile phase: Isocratic 80% MeOH / 20% H_2O with 10 mM NH_4OAc buffer

Flow: 300 µl/min

MS Parameters

Collision Gas (mbar) = 3.24e-3
Collision Energy (eV) = 5

Reagent

HFPO I.S._00004

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO I.S._00004

Description:	Internal Standard for HFPO 0.5ug/ml	Expiration Date:	08/28/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	North Analytical	Prepared By:	Meyer, Andrew GC
Reagent Volume:	100.000 mL	Solvent:	LCMS Grade MeOH
Creation Date:	08/28/2017	Solvent Lot:	LCMS_MeOH_00110
Open Date:			
Container(s):	4700620		
Comment:			

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	13C3 HFPO-DA_00004	08/28/2018	50.00000	ug/mL	0.50000	ug/mL
13C3 HFPO-DA (IS)	13C3 HFPO-DA_00004	08/28/2018	50.00000	ug/mL	0.50000	ug/mL

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
13C3 HFPO-DA_00004	13C3 HFPO-DA I.S. for HFPO	ASTD	08/28/18	Wellington Laboratories	M3HFPOADA061	M3HFPO-DA	1.00000	mL

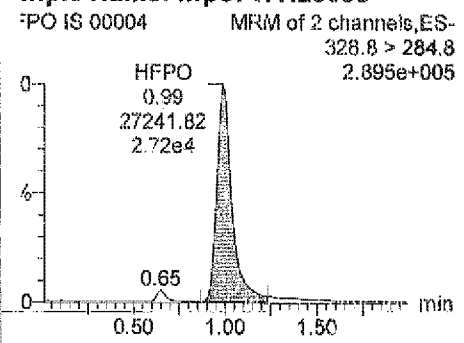
Ok AW 8/29/17

taset: Untitled

st Altered: Tuesday, August 29, 2017 10:47:21 Mountain Daylight Time
nted: Tuesday, August 29, 2017 10:47:53 Mountain Daylight Time

thod: C:\MassLynx\8321.PRO\MethDB\hfpo.mdb 23 Aug 2017 10:19:52
libration: C:\MassLynx\8321.PRO\CurveDB\hfpo17d24.cdb 24 Apr 2017 13:20:17

mple Name: hfpo717H23083

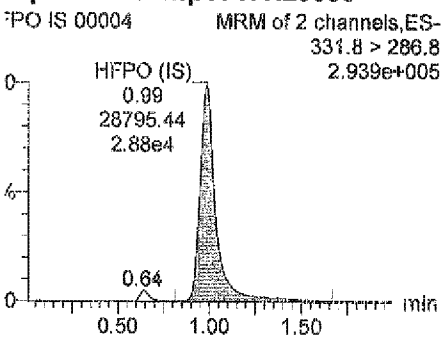


#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar...	ppb	%Dev
1	hfpo717H23083		10.000	0.99	27241.822	28795.438	0.946	bd	10.0	-0.4

itaset: Untitled

st Altered: Tuesday, August 29, 2017 10:47:21 Mountain Daylight Time
nted: Tuesday, August 29, 2017 10:47:53 Mountain Daylight Time

mple Name: hfpo717H23083



#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Primar	ppb	%Dev
1	hfpo717H23083		1.000	0.99	28795.438		28795.438	bb	1.2	23.6

Reagent

HFPO I.S._00007

Preliminary Report

TestAmerica Denver
Internal Standard Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20171212-65681.b\hfpo717L12074.d				
Lims ID:	HFPO IS 00007				
Client ID:					
Sample Type:	CCV				
Inject. Date:	12-Dec-2017 15:02:32	ALS Bottle#:	25	Worklist Smp#:	74
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	HFPO IS 00007				
Misc. Info.:	HFPO17L12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Sublist:	chrom-HFPO*sub1				
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20171212-65681.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	12-Dec-2017 15:48:38	Calib Date:	10-Oct-2017 09:58:07		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10033.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK024				

Averaged ICal Samples:

\\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10026.d
\\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10027.d
\\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10028.d
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\\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10033.d

Area Recoveries, Detector: F1:MRM

Compound	Average Standard	Lower Limit	Upper Limit	Sample	% Rec
* 2 13C3 HFPO-DA (IS)	731446	365723	1462892	740105	101.18

RT Recoveries

Compound	Average Standard	Lower Limit	Upper Limit	Sample	DLT(min.)	% Diff
* 2 13C3 HFPO-DA (IS)	0.880	0.380	1.380	1.056	-0.176	19.997

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.500 minutes of internal standard RT.
RT LOWER LIMIT = - 0.500 minutes of internal standard RT.

Reagent

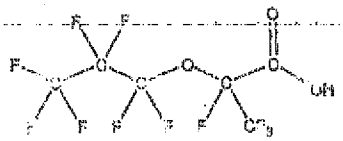
HFPO-DA_00003

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PRODUCT CODE: HFPO-DA **LOT NUMBER:** HFPODA0213
COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid

STRUCTURE: **CAS #:** 13252-13-6



MOLECULAR FORMULA:	$C_6HF_{11}O_3$	**MOLECULAR WEIGHT:**	330.05
CONCENTRATION:	50 ± 2.5 µg/ml	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%		
LAST TESTED: (mm/dd/yyyy)	02/05/2014		
EXPIRY DATE: (mm/dd/yyyy)	Stability studies ongoing		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

RL = 0.025 ppb
MDL < RL

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

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Certified By: B.G. Chittim **Date:** 02/13/2014 (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

ED_002011_00000028-00164

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All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external, ISO/IEC 17025:2005 accredited calibration company. In addition, their calibration is verified prior to each weighing using NIST and/or NRC traceable external weights. All volumetric glassware used is of Class A tolerance and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration for the period of time specified by the expiry date in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to ISO 9001:2008 by SAI Global, ISO/IEC 17025:2005 by the Canadian Association for Laboratory Accreditation Inc. (CALA, A 1226), and ISO GUIDE 34:2009 by ACLASS (certificate number AR-[illegible]).

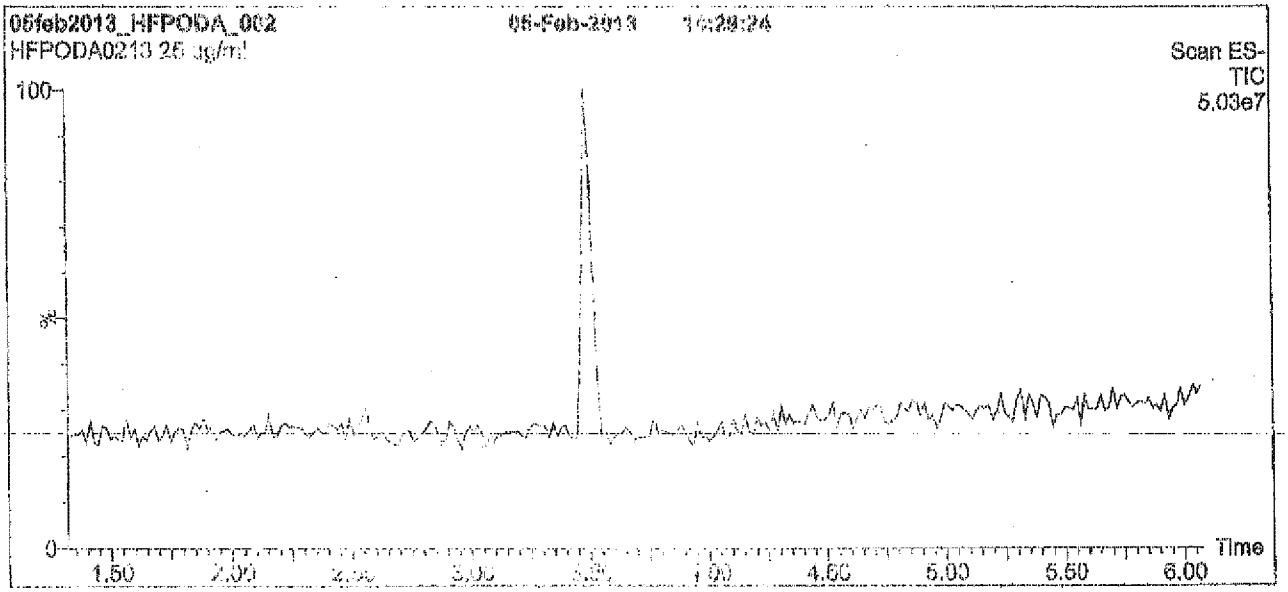
CALA

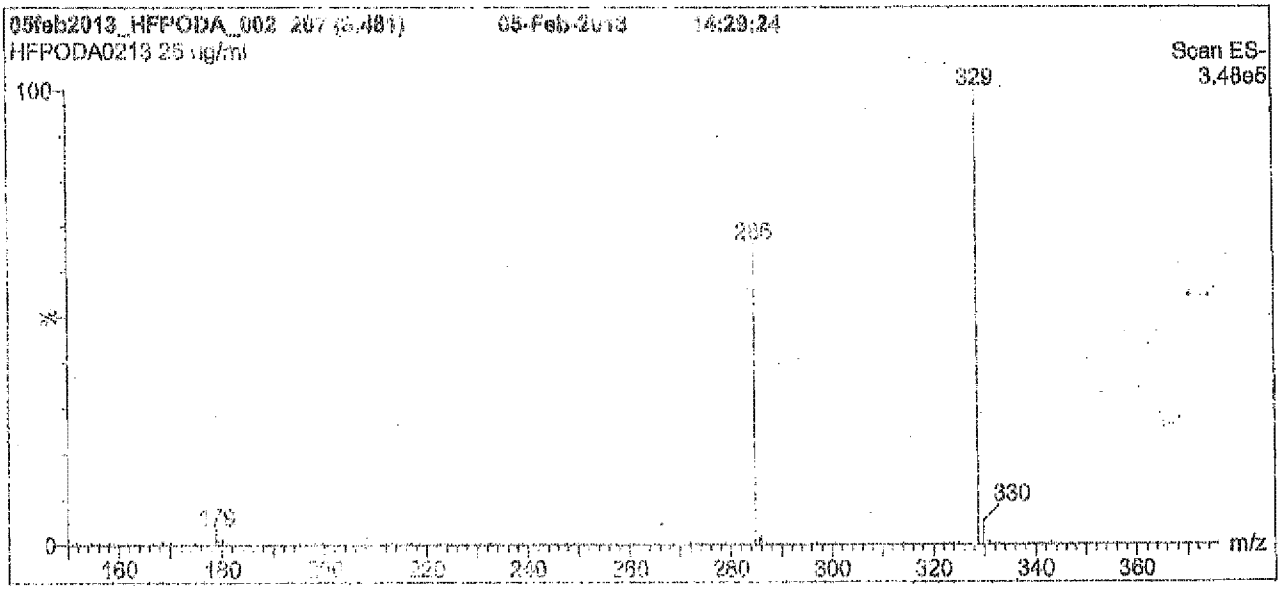
ACLASS

REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: HFPO-DA; LCMS Data (TIC and Mass Spectrum)





Conditions for Figure 3:

LC: **Waters Acquity Ultra Performance LC**
MS: **Micromass Quattro micro API MS**

Chromatographic Conditions:

Column: Kinetex PFP
2.6 µm, 4.6 x 100 mm

Mobile phase: Gradient
Start 40% (80:20 MeOH:ACN) / 60% H_2O
(both with 10 mM Ammonium Acetate buffer)
Ramp to 80% organic over 9 min and hold for 1 min
before returning to initial conditions in 0.5 min.
Time: 11 min

Flow: 400 µl/min

MS Parameters:

Experiment: Full Scan (150 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 9.00
Cone Gas Flow (l/hr) = 50
Desolvation Gas Flow (l/hr) = 750

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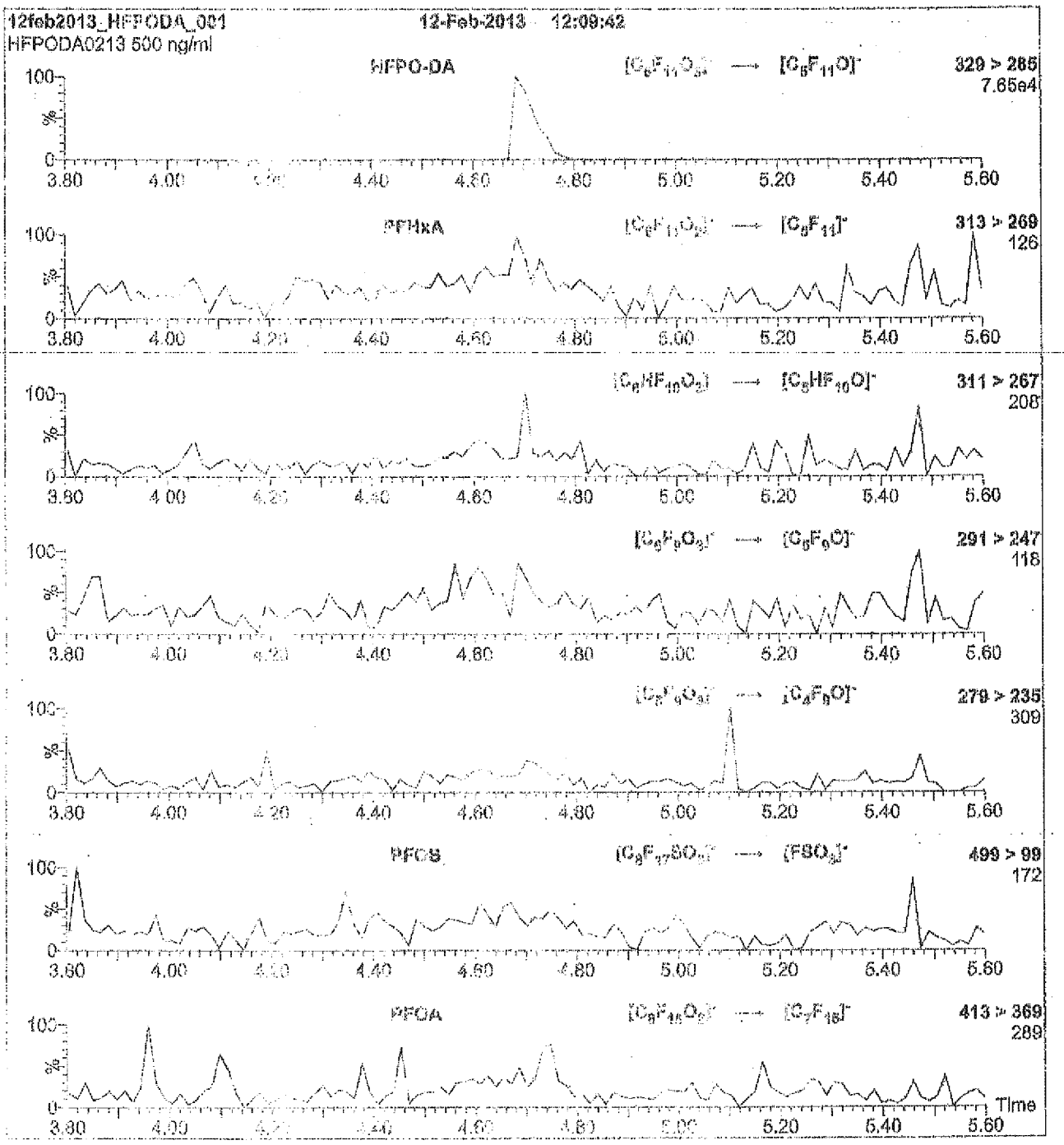
Figure 2: HFPO-DA: LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection:	Direct loop injection 10 µl (500 ng/ml HFPO-DA)	MS Parameters: Collision Gas (mbar) = 3.87e-3 Collision Energy (eV) = 5
Mobile phase:	Isocratic 80% (80:20 MeOH:ACN) / 20% H_2O (both with 10 mM NH_4OAc buffer)	
Flow:	300 µl/min	

Reagent

HFPO-DA_00004

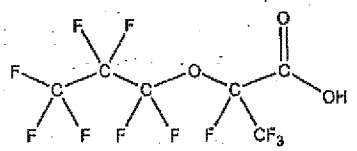
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: HFPO-DA **LOT NUMBER:** HFPODA0717

COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid

STRUCTURE: **CAS #:** 13252-13-6



MOLECULAR FORMULA:	$C_6HF_{11}O_3$	**MOLECULAR WEIGHT:**	330.05
CONCENTRATION:	50 ± 2.5 µg/ml	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%		
LAST TESTED: (mm/dd/yyyy)	07/13/2017		
EXPIRY DATE: (mm/dd/yyyy)	07/13/2020		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Product is commercially known as GenX.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 07/14/2017 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

HAZARDS:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

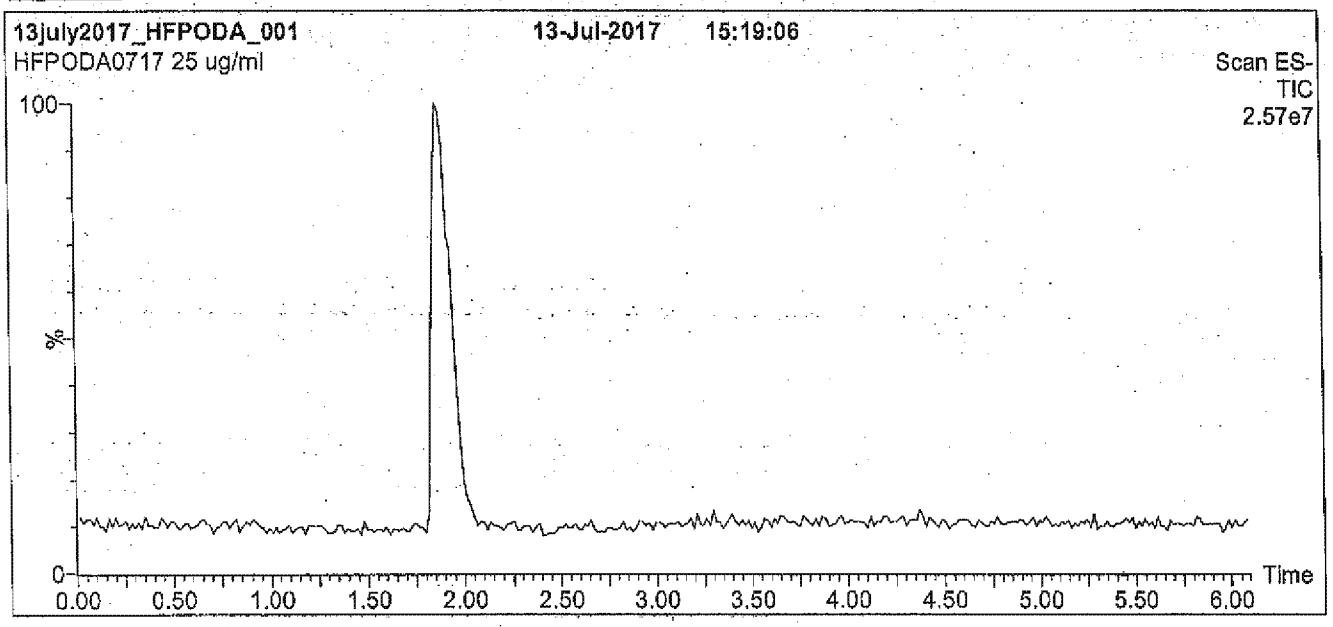
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

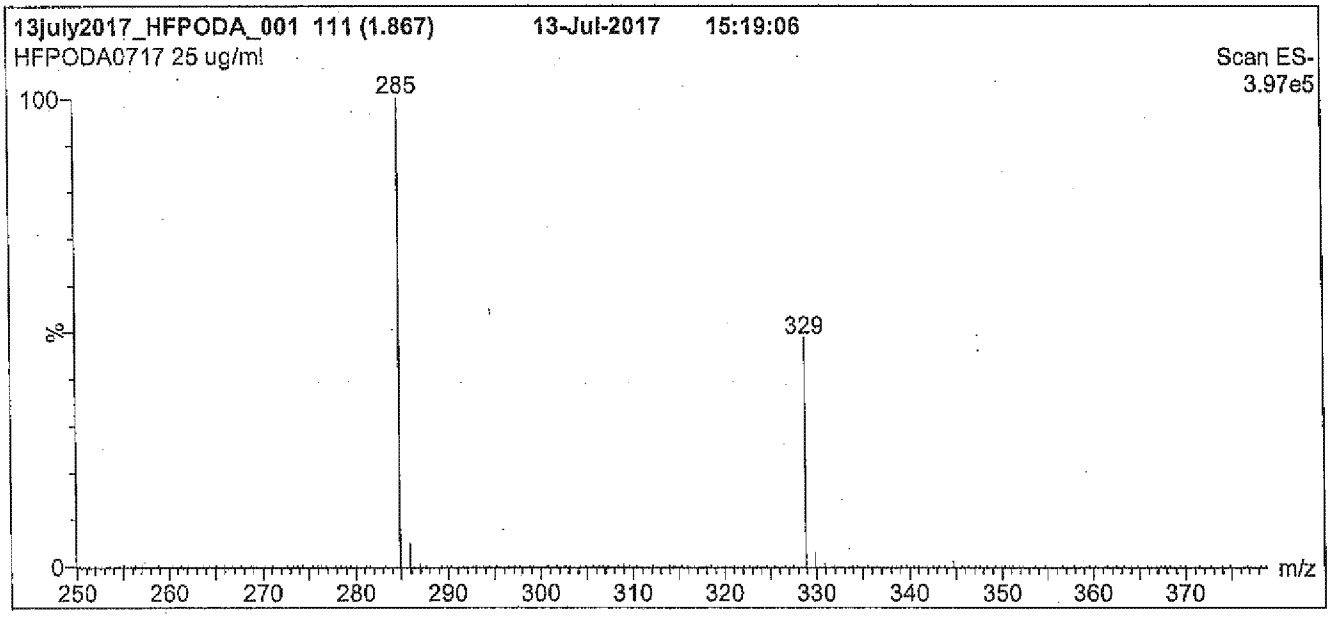
CALA Testing Accreditation No. A1226

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**





Conditions for Figure 1:

LC: **Waters Acquity Ultra Performance LC**
MS: **Micromass Quattro *micro* API MS**

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% MeOH / 45% H_2O with 10 mM NH_4OAc buffer
Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.

Time: 10 min

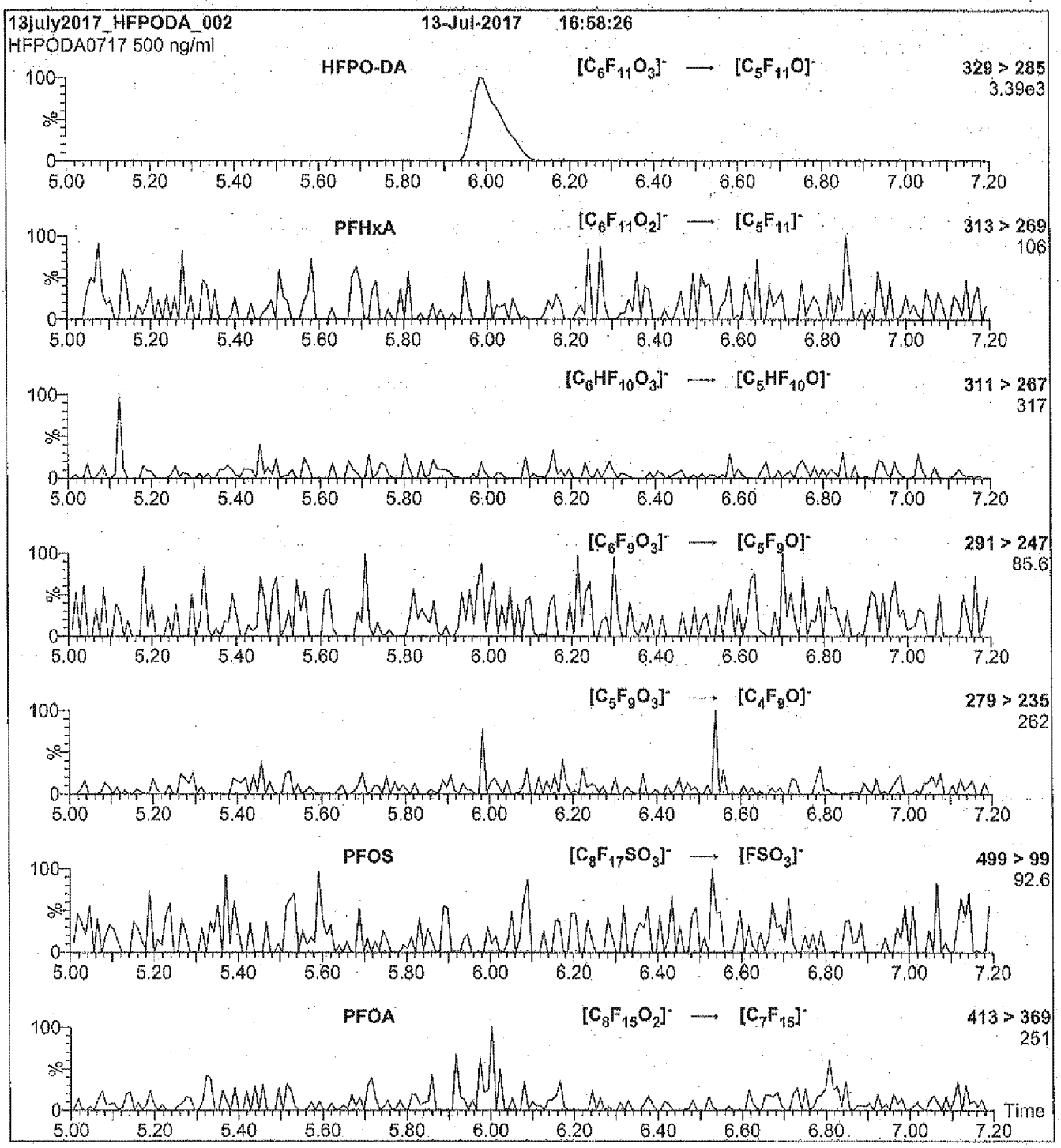
Flow: 300 µl/min

MS Parameters

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 10.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 700

Figure 2: **HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: Direct loop injection
10 µl (600 ng/ml HFPO-DA)

Mobile phase: Isocratic 80% MeOH / 20% H_2O with 10 mM NH_4OAc buffer

Flow: 300 µl/min

MS Parameters

Collision Gas (mbar) = 3.20e-3
Collision Energy (eV) = 5

8321A_HFPO_Du

HFPO-DA

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Synergi Hyd ID:

Client Sample ID	Lab Sample ID	HFPODA #
FAY-D-6377TABOR-W1-1-020118	280-106036-1	66
FAY-D-6476TABOR-W1-1-020118	280-106036-2	71
FAY-D-6476TABOR-W1-1-020118-D	280-106036-3	70
FAY-D-6644TABOR-W1-1-020118	280-106036-4	80
FAY-D-6644TABOR-W2-1-020118	280-106036-5	68
FAY-D-6808TABOR-W1-1-020118	280-106036-6	69
FAY-D-6838TABOR-W1-1-020118	280-106036-7	70
FAY-D-6838TABOR-W2-1-020118	280-106036-8	69
FAY-D-6858TABOR-W1-1-020118	280-106036-9	71
FAY-D-7047TABOR-W1-1-020118	280-106036-10	72
FAY-D-5049MATTH-W1-1-020118	280-106036-11	77
FAY-D-7646TABOR-W1-1-02018	280-106036-12	69
FAY-D-6731BUTLE-W1-1-020118	280-106036-13	76
FAY-D-6731BUTLE-W1-2-020118	280-106036-14	77
FAY-D-6815BUTLE-W1-1-020118	280-106036-15	83
FAY-D-6893BUTLE-W1-1-020118	280-106036-16	77
FAY-D-5018MRSHR-W1-1-020118	280-106036-17	69
FAY-D-5018MRSHR-W1-2-020118	280-106036-18	73
FAY-D-5021MRSHR-W1-1-020118	280-106036-19	67
FAY-D-5021MRSHR-W1-2-020118	280-106036-20	76
FAY-D-4065SPNSH-W1-1-020118	280-106036-21	67
FAY-D-4065SPNSH-W1-2-020118	280-106036-22	78
FAY-D-4057SPNSH-W1-1-020118	280-106036-23	75
FAY-D-7265NC87H-W1-1-020118	280-106036-24	68

	QC LIMITS
HFPODA = 13C3 HFPO-DA	50-200

Column to be used to flag recovery values

FORM II 8321A

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Synergi Hyd ID:

Client Sample ID	Lab Sample ID	HFPODA #
FAY-D-7394NC87H-W1-1-020118	280-106036-25	87
FAY-D-6711CHKFT-W1-1-020118	280-106036-26	76
FAY-D-6416CHKFT-W1-1-020118	280-106036-27	78
FAY-D-6591BUTLE-W1-1-020118	280-106036-28	77
FAY-D-7149BUTLE-W1-1-020118	280-106036-29	82
FAY-D-7243BUTLE-W1-1-020118	280-106036-30	85
FAY-D-5049MATTH-W1-1-020118-D	280-106036-31	75
FAY-D-7609TABOR-W1-1-020118	280-106036-32	71
FAY-D-7741TABOR-W1-1-020118	280-106036-33	81
FAY-D-FB-020118-B	280-106036-34	82
FAY-D-47MAUDI-W1-1-020118	280-106036-35	82
FAY-D-47MAUDI-W1-2-020118	280-106036-36	81
FAY-D-1123NC20H-W1-1-020118	280-106036-37	75
FAY-D-3322DANDE-W1-1-020118	280-106036-38	82
FAY-D-3322DANDE-W1-1-020118D	280-106036-39	113
FAY-D-4057SPNSH-W1-2-020118	280-106036-40	107
FAY-D-5085MRSHR-W1-1-020118	280-106036-41	118
FAY-D-FB-020118	280-106036-42	114
FAY-D-FB-020118-A	280-106036-43	111
	MB 280-404518/1-A	74
	MB 280-404551/1-A	72
	MB 280-404556/1-A	77
	MB 280-404557/1-A	81
	MB 280-404582/1-A	108
	MB 280-404785/1-A	83

	QC LIMITS
HFPODA = 13C3 HFPO-DA	50-200

Column to be used to flag recovery values

FORM II 8321A

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Synergi Hyd ID:

Client Sample ID	Lab Sample ID	HFPODA #
	LCS 280-404518/2-A	74
	LCS 280-404551/2-A	74
	LCS 280-404556/2-A	78
	LCS 280-404557/2-A	78
	LCS 280-404582/2-A	112
	LCS 280-404785/2-A	79
	LCSD 280-404518/3-A	71
	LCSD 280-404551/4-A	79
	LCSD 280-404556/3-A	75
	LCSD 280-404557/3-A	78
	LCSD 280-404582/3-A	112
	LCSD 280-404785/4-A	82
	LLCS 280-404518/4-A	73
	LLCS 280-404551/3-A	82
	LLCS 280-404556/4-A	76
	LLCS 280-404557/4-A	84
	LLCS 280-404582/4-A	119
	LLCS 280-404785/3-A	84
FAY-D-6476TABOR-W1 -1-020118 MS	280-106036-2 MS	63
FAY-D-5049MATTH-W1 -1-020118 MS	280-106036-11 MS	76
FAY-D-3322DANDE-W1 -1-020118 MS	280-106036-38 MS	83
FAY-D-6476TABOR-W1 -1-020118 DU	280-106036-2 DU	66
FAY-D-5049MATTH-W1 -1-020118 DU	280-106036-11 DU	73
FAY-D-3322DANDE-W1 -1-020118 DU	280-106036-38 DU	78

	QC LIMITS
HFPODA = 13C3 HFPO-DA	50-200

Column to be used to flag recovery values

FORM II 8321A

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Synergi Hyd ID:

Client Sample ID	Lab Sample ID	HFPODA #
	DLCK 280-404345/13	104

	QC LIMITS
HFPODA = 13C3 HFPO-DA	50-200

Column to be used to flag recovery values

FORM II 8321A

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12065.d

Lab ID: LCS 280-404518/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
HFPO-DA	0.200	0.203	102	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12083.d

Lab ID: LCS 280-404551/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
HFPO-DA	0.200	0.202	101	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12108.d

Lab ID: LCS 280-404556/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
HFPO-DA	0.200	0.192	96	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12137.d

Lab ID: LCS 280-404557/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
HFPO-DA	0.200	0.191	95	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B13084.d

Lab ID: LCS 280-404582/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
HFPO-DA	0.200	0.157	78	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B14009.d

Lab ID: LCS 280-404785/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
HFPO-DA	0.200	0.201	101	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12066.d

Lab ID: LCSD 280-404518/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
HFPO-DA	0.200	0.212	106	4	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12085.d

Lab ID: LCSD 280-404551/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
HFPO-DA	0.200	0.192	96	5	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12109.d

Lab ID: LCSD 280-404556/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
HFPO-DA	0.200	0.202	101	5	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12138.d

Lab ID: LCSD 280-404557/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
HFPO-DA	0.200	0.203	102	6	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B13085.d

Lab ID: LCSD 280-404582/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
HFPO-DA	0.200	0.157	78	0	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B14011.d

Lab ID: LCSD 280-404785/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
HFPO-DA	0.200	0.192	96	5	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12067.d

Lab ID: LLCS 280-404518/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
HFPO-DA	0.0200	0.0223	111	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12084.d

Lab ID: LLCS 280-404551/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
HFPO-DA	0.0200	0.0173	86	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12110.d

Lab ID: LLCS 280-404556/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
HFPO-DA	0.0200	0.0186	93	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12139.d

Lab ID: LLCS 280-404557/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
HFPO-DA	0.0200	0.0190	95	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B13086.d

Lab ID: LLCS 280-404582/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
HFPO-DA	0.0200	0.0167	83	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B14010.d

Lab ID: LLCS 280-404785/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
HFPO-DA	0.0200	0.0178	89	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12071.d

Lab ID: 280-106036-2 MS Client ID: FAY-D-6476TABOR-W1-1-020118 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
HFPO-DA	0.176	0.036	0.237	115	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12097.d

Lab ID: 280-106036-11 MS Client ID: FAY-D-5049MATTH-W1-1-020118 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
HFPO-DA	0.181	0.11	0.280	94	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B14026.d

Lab ID: 280-106036-38 MS Client ID: FAY-D-3322DANDE-W1-1-020118 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
HFPO-DA	0.167	<0.010	0.157	95	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS DETECTION LIMIT CHECK STANDARD RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B08044.d

Lab ID: DLCK 280-404345/13 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	DLCK CONCENTRATION (ug/L)	DLCK % REC	QC LIMITS REC	#
HFPO-DA	0.250	<0.50	90	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab File ID: hfpo718B12064.d Lab Sample ID: MB 280-404518/1-A

Matrix: Water Date Extracted: 02/09/2018 20:54

Instrument ID: LC_LCMS7 Date Analyzed: 02/12/2018 13:42

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-404518/2-A	hfpo718B12065.d	02/12/2018 13:45
	LCSD 280-404518/3-A	hfpo718B12066.d	02/12/2018 13:48
	LLCS 280-404518/4-A	hfpo718B12067.d	02/12/2018 13:52
FAY-D-6377TABOR-W1-1-020118	280-106036-1	hfpo718B12068.d	02/12/2018 13:55
FAY-D-6476TABOR-W1-1-020118	280-106036-2	hfpo718B12069.d	02/12/2018 13:58
FAY-D-6476TABOR-W1-1-020118 DU	280-106036-2 DU	hfpo718B12070.d	02/12/2018 14:01
FAY-D-6476TABOR-W1-1-020118 MS	280-106036-2 MS	hfpo718B12071.d	02/12/2018 14:05

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab File ID: hfpo718B12082.d Lab Sample ID: MB 280-404551/1-A

Matrix: Water Date Extracted: 02/11/2018 11:55

Instrument ID: LC_LCMS7 Date Analyzed: 02/12/2018 14:41

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-404551/2-A	hfpo718B12083.d	02/12/2018 14:44
	LLCS 280-404551/3-A	hfpo718B12084.d	02/12/2018 14:47
	LCSD 280-404551/4-A	hfpo718B12085.d	02/12/2018 14:50
FAY-D-6476TABOR-W1-1-020118-D	280-106036-3	hfpo718B12086.d	02/12/2018 14:53
FAY-D-6644TABOR-W1-1-020118	280-106036-4	hfpo718B12087.d	02/12/2018 14:57
FAY-D-6644TABOR-W2-1-020118	280-106036-5	hfpo718B12089.d	02/12/2018 15:03
FAY-D-6808TABOR-W1-1-020118	280-106036-6	hfpo718B12090.d	02/12/2018 15:06
FAY-D-6838TABOR-W1-1-020118	280-106036-7	hfpo718B12091.d	02/12/2018 15:10
FAY-D-6838TABOR-W2-1-020118	280-106036-8	hfpo718B12092.d	02/12/2018 15:13
FAY-D-6858TABOR-W1-1-020118	280-106036-9	hfpo718B12093.d	02/12/2018 15:16
FAY-D-7047TABOR-W1-1-020118	280-106036-10	hfpo718B12094.d	02/12/2018 15:19
FAY-D-5049MATTH-W1-1-020118	280-106036-11	hfpo718B12095.d	02/12/2018 15:23
FAY-D-5049MATTH-W1-1-020118 DU	280-106036-11 DU	hfpo718B12096.d	02/12/2018 15:26
FAY-D-5049MATTH-W1-1-020118 MS	280-106036-11 MS	hfpo718B12097.d	02/12/2018 15:29
FAY-D-7646TABOR-W1-1-02018	280-106036-12	hfpo718B12098.d	02/12/2018 15:32
FAY-D-6731BUTLE-W1-1-020118	280-106036-13	hfpo718B12100.d	02/12/2018 15:39
FAY-D-6731BUTLE-W1-2-020118	280-106036-14	hfpo718B12101.d	02/12/2018 15:42
FAY-D-6815BUTLE-W1-1-020118	280-106036-15	hfpo718B12102.d	02/12/2018 15:45
FAY-D-6893BUTLE-W1-1-020118	280-106036-16	hfpo718B12103.d	02/12/2018 15:49
FAY-D-5018MRSHR-W1-1-020118	280-106036-17	hfpo718B12104.d	02/12/2018 15:52
FAY-D-5018MRSHR-W1-2-020118	280-106036-18	hfpo718B12105.d	02/12/2018 15:55

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab File ID: hfpo718B12107.d Lab Sample ID: MB 280-404556/1-A

Matrix: Water Date Extracted: 02/11/2018 19:22

Instrument ID: LC_LCMS7 Date Analyzed: 02/12/2018 16:02

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-404556/2-A	hfpo718B12108.d	02/12/2018 16:05
	LCSD 280-404556/3-A	hfpo718B12109.d	02/12/2018 16:08
	LLCS 280-404556/4-A	hfpo718B12110.d	02/12/2018 16:11
FAY-D-5021MRSHR-W1-1-020118	280-106036-19	hfpo718B12111.d	02/12/2018 16:15
FAY-D-5021MRSHR-W1-2-020118	280-106036-20	hfpo718B12112.d	02/12/2018 16:18
FAY-D-4065SPNSH-W1-1-020118	280-106036-21	hfpo718B12113.d	02/12/2018 16:21
FAY-D-4065SPNSH-W1-2-020118	280-106036-22	hfpo718B12114.d	02/12/2018 16:25

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab File ID: hfpo718B12136.d Lab Sample ID: MB 280-404557/1-A

Matrix: Water Date Extracted: 02/11/2018 19:44

Instrument ID: LC_LCMS7 Date Analyzed: 02/12/2018 17:36

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-404557/2-A	hfpo718B12137.d	02/12/2018 17:40
	LCSD 280-404557/3-A	hfpo718B12138.d	02/12/2018 17:43
	LLCS 280-404557/4-A	hfpo718B12139.d	02/12/2018 17:46
FAY-D-4057SPNSH-W1-1-020118	280-106036-23	hfpo718B12140.d	02/12/2018 17:49
FAY-D-7265NC87H-W1-1-020118	280-106036-24	hfpo718B12141.d	02/12/2018 17:53
FAY-D-7394NC87H-W1-1-020118	280-106036-25	hfpo718B12142.d	02/12/2018 17:56
FAY-D-6711CHKFT-W1-1-020118	280-106036-26	hfpo718B12143.d	02/12/2018 17:59

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab File ID: hfpo718B13083.d Lab Sample ID: MB 280-404582/1-A

Matrix: Water Date Extracted: 02/12/2018 08:23

Instrument ID: LC_LCMS7 Date Analyzed: 02/13/2018 12:26

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-404582/2-A	hfpo718B13084.d	02/13/2018 12:29
	LCSD 280-404582/3-A	hfpo718B13085.d	02/13/2018 12:32
	LLCS 280-404582/4-A	hfpo718B13086.d	02/13/2018 12:36
FAY-D-3322DANDE-W1-1-020118D	280-106036-39	hfpo718B13087.d	02/13/2018 12:39
FAY-D-4057SPNSH-W1-2-020118	280-106036-40	hfpo718B13088.d	02/13/2018 12:42
FAY-D-5085MRSHR-W1-1-020118	280-106036-41	hfpo718B13089.d	02/13/2018 12:45
FAY-D-FB-020118	280-106036-42	hfpo718B13090.d	02/13/2018 12:49
FAY-D-FB-020118-A	280-106036-43	hfpo718B13091.d	02/13/2018 12:52

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab File ID: hfpo718B14008.d Lab Sample ID: MB 280-404785/1-A

Matrix: Water Date Extracted: 02/13/2018 11:30

Instrument ID: LC_LCMS7 Date Analyzed: 02/14/2018 08:03

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-404785/2-A	hfpo718B14009.d	02/14/2018 08:07
	LLCS 280-404785/3-A	hfpo718B14010.d	02/14/2018 08:10
	LCSD 280-404785/4-A	hfpo718B14011.d	02/14/2018 08:13
FAY-D-6416CHKFT-W1-1-020118	280-106036-27	hfpo718B14012.d	02/14/2018 08:16
FAY-D-6591BUTLE-W1-1-020118	280-106036-28	hfpo718B14013.d	02/14/2018 08:20
FAY-D-7149BUTLE-W1-1-020118	280-106036-29	hfpo718B14014.d	02/14/2018 08:23
FAY-D-7243BUTLE-W1-1-020118	280-106036-30	hfpo718B14015.d	02/14/2018 08:26
FAY-D-5049MATTH-W1-1-020118-D	280-106036-31	hfpo718B14016.d	02/14/2018 08:30
FAY-D-7609TABOR-W1-1-020118	280-106036-32	hfpo718B14017.d	02/14/2018 08:33
FAY-D-7741TABOR-W1-1-020118	280-106036-33	hfpo718B14019.d	02/14/2018 08:39
FAY-D-FB-020118-B	280-106036-34	hfpo718B14020.d	02/14/2018 08:43
FAY-D-47MAUDI-W1-1-020118	280-106036-35	hfpo718B14021.d	02/14/2018 08:46
FAY-D-47MAUDI-W1-2-020118	280-106036-36	hfpo718B14022.d	02/14/2018 08:49
FAY-D-1123NC20H-W1-1-020118	280-106036-37	hfpo718B14023.d	02/14/2018 08:52
FAY-D-3322DANDE-W1-1-020118	280-106036-38	hfpo718B14024.d	02/14/2018 08:56
FAY-D-3322DANDE-W1-1-020118 DU	280-106036-38 DU	hfpo718B14025.d	02/14/2018 08:59
FAY-D-3322DANDE-W1-1-020118 MS	280-106036-38 MS	hfpo718B14026.d	02/14/2018 09:02

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6377TABOR-W1-1-020118 | Lab Sample ID: 280-106036-1

Matrix: Water | Lab File ID: hfpo718B12068.d

Analysis Method: 8321A | Date Collected: 02/01/2018 08:47

Extraction Method: 3535 | Date Extracted: 02/09/2018 20:54

Sample wt/vol: 279.5(mL) | Date Analyzed: 02/12/2018 13:55

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404641 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.012		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	66		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12068.d
Lims ID: 280-106036-C-1-A
Client ID: FAY-D-6377TABOR-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:55:17 ALS Bottle#: 40 Worklist Smp#: 35
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-C-1-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:10

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	491617	6.58	1005	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		491617	10.0	1005	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.920	1.056	-0.136	1.000	37488	0.6828	5.9	M

QC Flag Legend

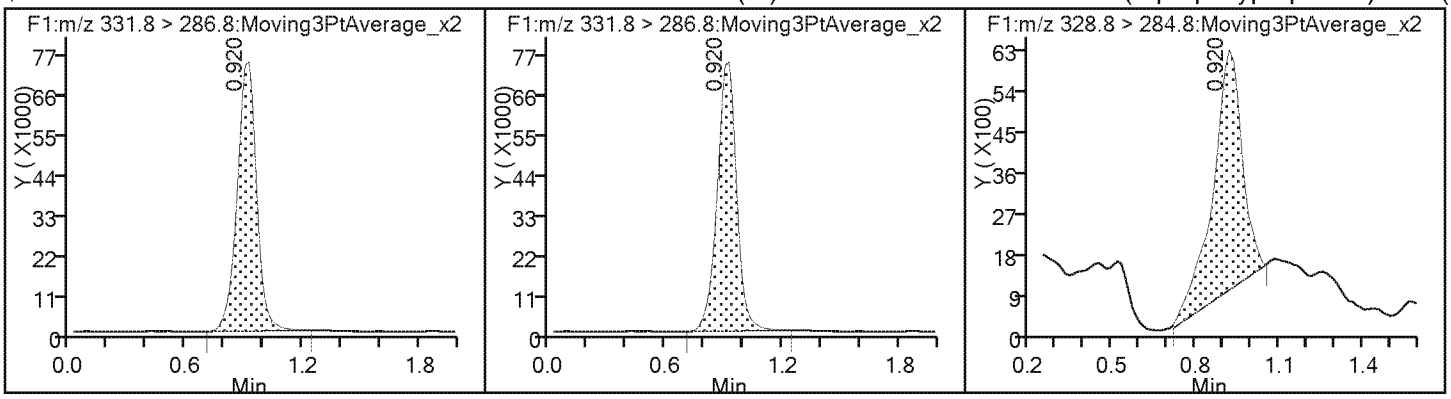
Review Flags
M - Manually Integrated

Report Date: 12-Feb-2018 14:31:25 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12068.d				
Injection Date:	12-Feb-2018 13:55:17	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-C-1-A	Lab Sample ID:	280-106036-1		
Client ID:	FAY-D-6377TABOR-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	40	Worklist Smp#:	35
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12068.d				
Lims ID:	280-106036-C-1-A				
Client ID:	FAY-D-6377TABOR-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 13:55:17	ALS Bottle#:	40	Worklist Smp#:	35
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-C-1-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	12-Feb-2018 14:31:21	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK021				

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.58	65.85

Manual Integration/User Assign Peak Report

TestAmerica Denver

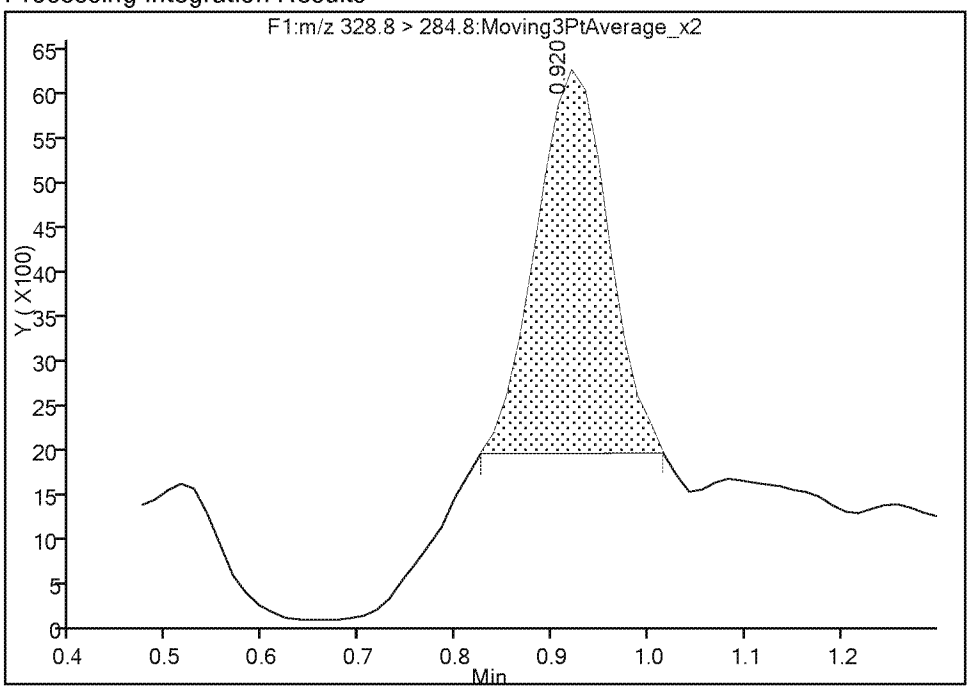
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12068.d				
Injection Date:	12-Feb-2018 13:55:17	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-C-1-A	Lab Sample ID:	280-106036-1		
Client ID:	FAY-D-6377TABOR-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	40	Worklist Smp#:	35
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

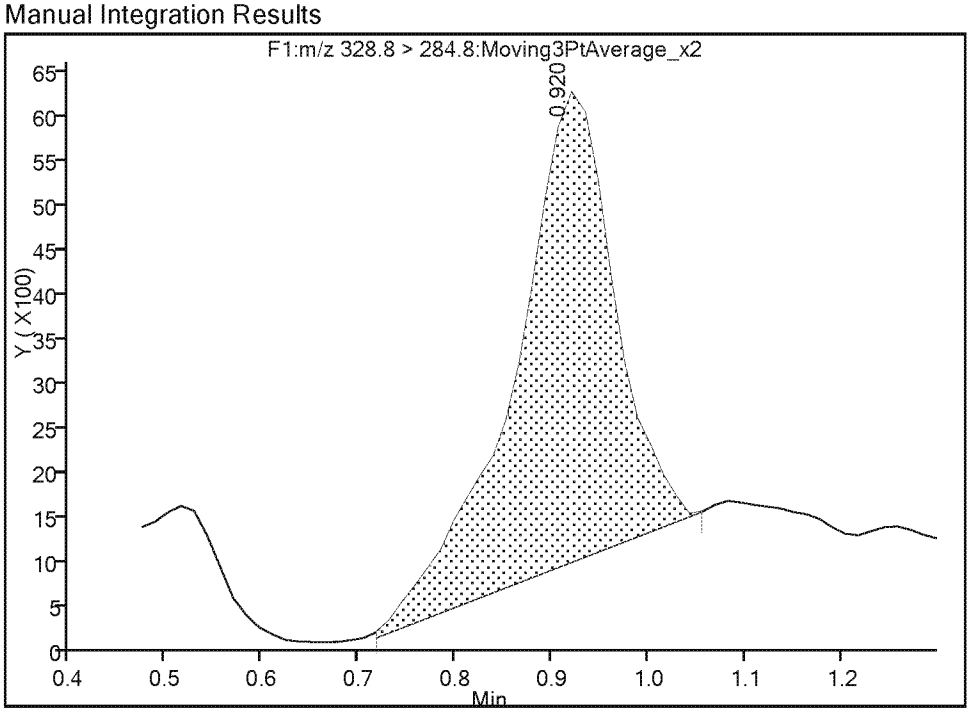
Processing Integration Results

RT: 0.92
Area: 22015
Amount: 0.386989
Amount Units: ug/l



Manual Integration Results

RT: 0.92
Area: 37488
Amount: 0.682850
Amount Units: ug/l



Reviewer: meyera, 12-Feb-2018 14:30:09

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6476TABOR-W1-1-020118 | Lab Sample ID: 280-106036-2

Matrix: Water | Lab File ID: hfpo718B12069.d

Analysis Method: 8321A | Date Collected: 02/01/2018 09:22

Extraction Method: 3535 | Date Extracted: 02/09/2018 20:54

Sample wt/vol: 274(mL) | Date Analyzed: 02/12/2018 13:58

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404641 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.036		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	71		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12069.d
Lims ID: 280-106036-E-2-A
Client ID: FAY-D-6476TABOR-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:58:34 ALS Bottle#: 41 Worklist Smp#: 36
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-E-2-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:14

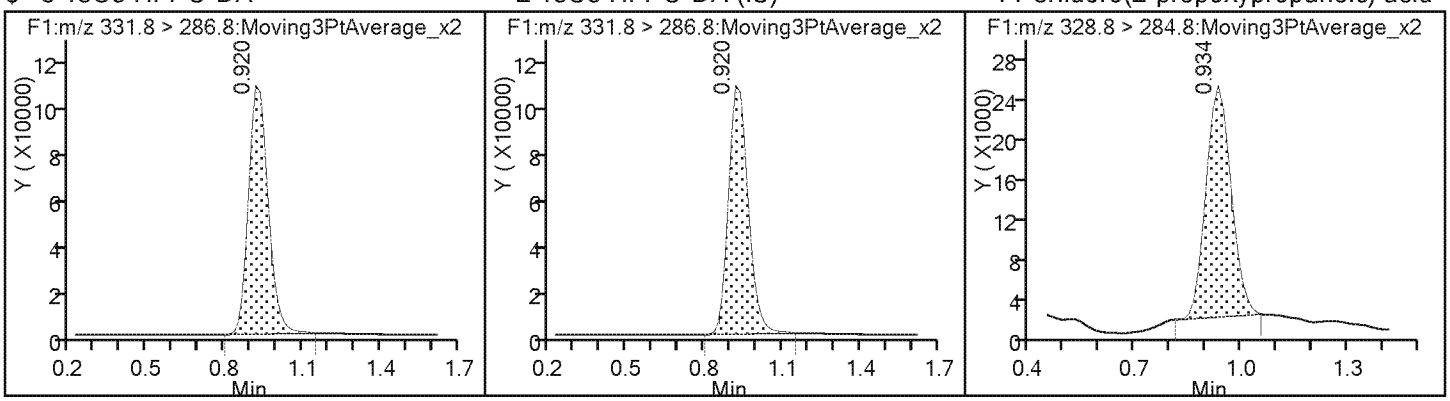
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	527250	7.06	1061	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		527250	10.0	1061	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	111600	1.96	28.4	

Report Date: 12-Feb-2018 14:31:26 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12069.d				
Injection Date:	12-Feb-2018 13:58:34	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-E-2-A	Lab Sample ID:	280-106036-2		
Client ID:	FAY-D-6476TABOR-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	41	Worklist Smp#:	36
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12069.d				
Lims ID:	280-106036-E-2-A				
Client ID:	FAY-D-6476TABOR-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 13:58:34	ALS Bottle#:	41	Worklist Smp#:	36
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-E-2-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	12-Feb-2018 14:31:21	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK021				

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.06	70.62

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6476TABOR-W1-1-020118-D | Lab Sample ID: 280-106036-3

Matrix: Water | Lab File ID: hfpo718B12086.d

Analysis Method: 8321A | Date Collected: 02/01/2018 09:22

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 275.9(mL) | Date Analyzed: 02/12/2018 14:53

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.038		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	70		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12086.d
Lims ID: 280-106036-C-3-A
Client ID: FAY-D-6476TABOR-W1-1-020118-D
Sample Type: Client
Inject. Date: 12-Feb-2018 14:53:57 ALS Bottle#: 8 Worklist Smp#: 53
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-C-3-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:52:59 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:23

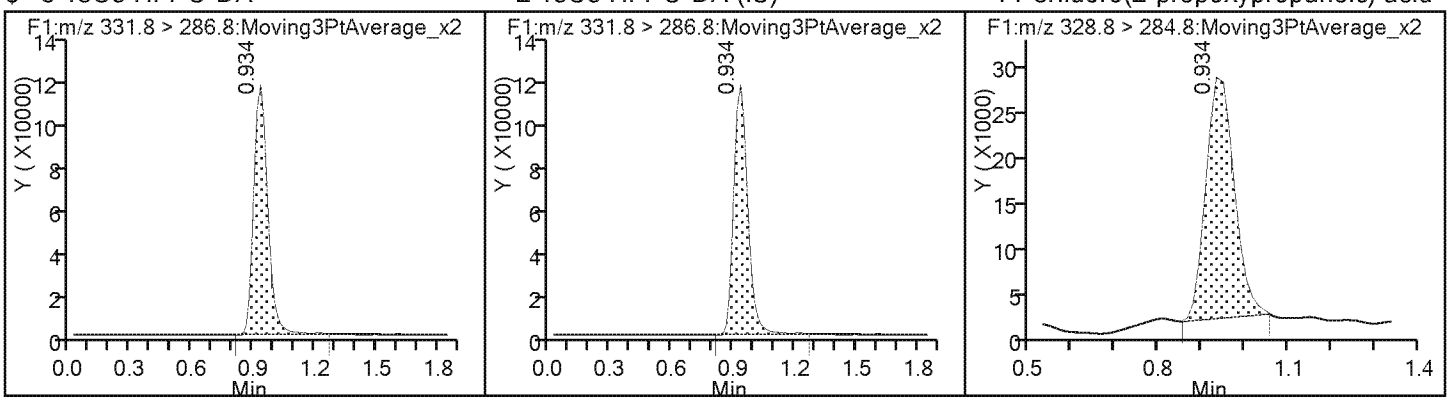
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	524786	7.03	1898	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		524786	10.0	1898	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	117690	2.07	28.4	

Report Date: 13-Feb-2018 07:56:20 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12086.d				
Injection Date:	12-Feb-2018 14:53:57	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-C-3-A	Lab Sample ID:	280-106036-3		
Client ID:	FAY-D-6476TABOR-W1-1-020118-D				
Operator ID:	JBH	ALS Bottle#:	8	Worklist Smp#:	53
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12086.d				
Lims ID:	280-106036-C-3-A				
Client ID:	FAY-D-6476TABOR-W1-1-020118-D				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 14:53:57	ALS Bottle#:	8	Worklist Smp#:	53
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-C-3-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:52:59	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.03	70.29

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6644TABOR-W1-1-020118 | Lab Sample ID: 280-106036-4

Matrix: Water | Lab File ID: hfpo718B12087.d

Analysis Method: 8321A | Date Collected: 02/01/2018 09:56

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 264.9(mL) | Date Analyzed: 02/12/2018 14:57

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	80		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12087.d				
Lims ID:	280-106036-B-4-A				
Client ID:	FAY-D-6644TABOR-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 14:57:12	ALS Bottle#:	9	Worklist Smp#:	54
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-B-4-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:52:59	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:26

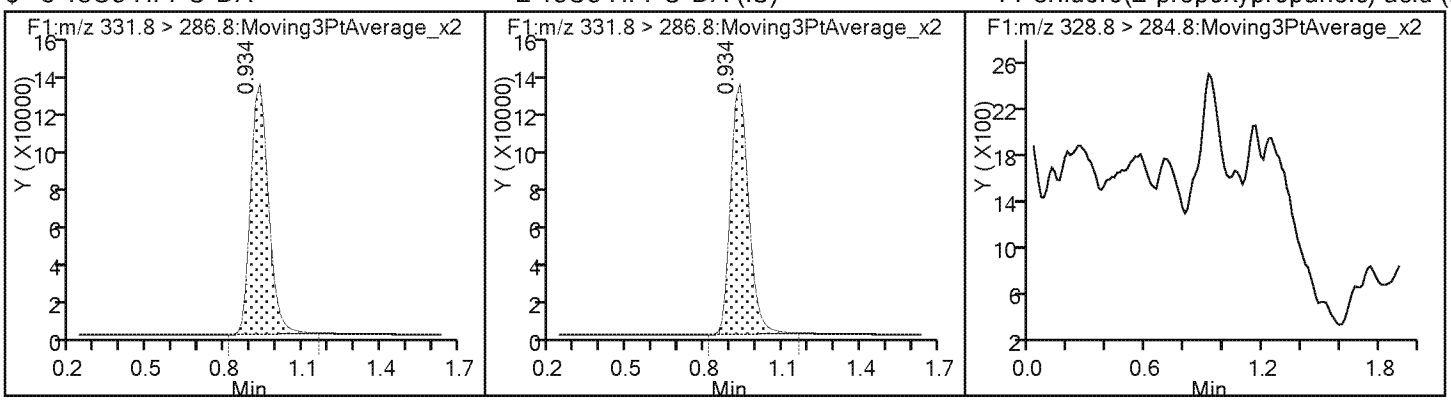
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	594527	7.96	1375	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		594527	10.0	1375	

Report Date: 13-Feb-2018 07:56:21 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12087.d				
Injection Date:	12-Feb-2018 14:57:12	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-B-4-A	Lab Sample ID:	280-106036-4		
Client ID:	FAY-D-6644TABOR-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	9	Worklist Smp#:	54
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12087.d				
Lims ID:	280-106036-B-4-A				
Client ID:	FAY-D-6644TABOR-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 14:57:12	ALS Bottle#:	9	Worklist Smp#:	54
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-B-4-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:52:59	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.96	79.63

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6644TABOR-W2-1-020118 Lab Sample ID: 280-106036-5

Matrix: Water Lab File ID: hfpo718B12089.d

Analysis Method: 8321A Date Collected: 02/01/2018 09:57

Extraction Method: 3535 Date Extracted: 02/11/2018 11:55

Sample wt/vol: 293.3(mL) Date Analyzed: 02/12/2018 15:03

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Synergi Hydro ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	68		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12089.d
Lims ID: 280-106036-A-5-A
Client ID: FAY-D-6644TABOR-W2-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 15:03:40 ALS Bottle#: 10 Worklist Smp#: 56
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-5-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:39

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.975	1.045	-0.070	1.000	504946	6.76	1647	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.975	1.045	-0.070		504946	10.0	1647	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.988	1.056	-0.068	1.000	32060	0.5629	5.0	M

QC Flag Legend

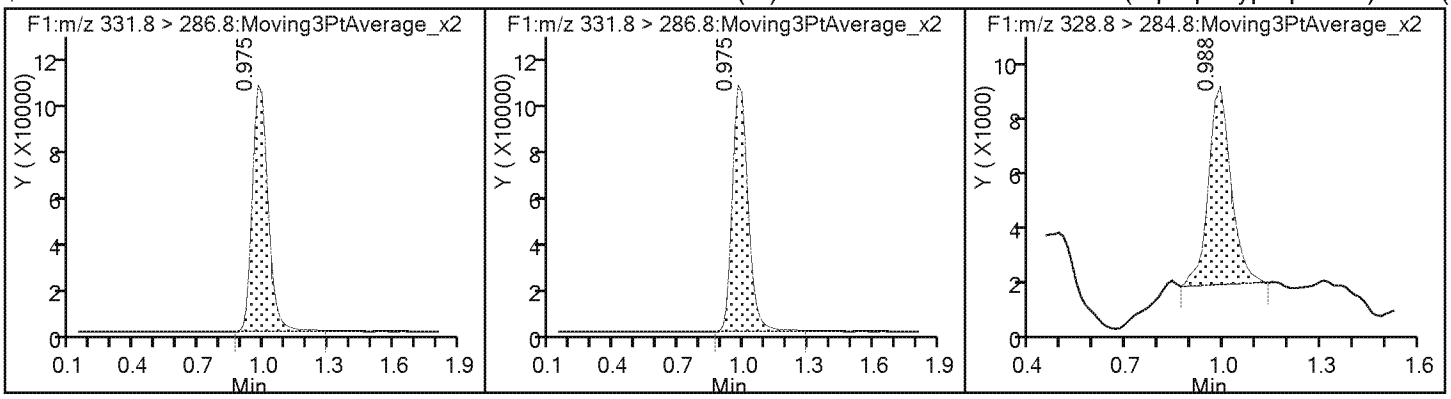
Review Flags
M - Manually Integrated

Report Date: 13-Feb-2018 07:56:22 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12089.d				
Injection Date:	12-Feb-2018 15:03:40	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-5-A	Lab Sample ID:	280-106036-5		
Client ID:	FAY-D-6644TABOR-W2-1-020118				
Operator ID:	JBH	ALS Bottle#:	10	Worklist Smp#:	56
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12089.d				
Lims ID:	280-106036-A-5-A				
Client ID:	FAY-D-6644TABOR-W2-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:03:40	ALS Bottle#:	10	Worklist Smp#:	56
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-5-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:21	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.76	67.63

Manual Integration/User Assign Peak Report

TestAmerica Denver

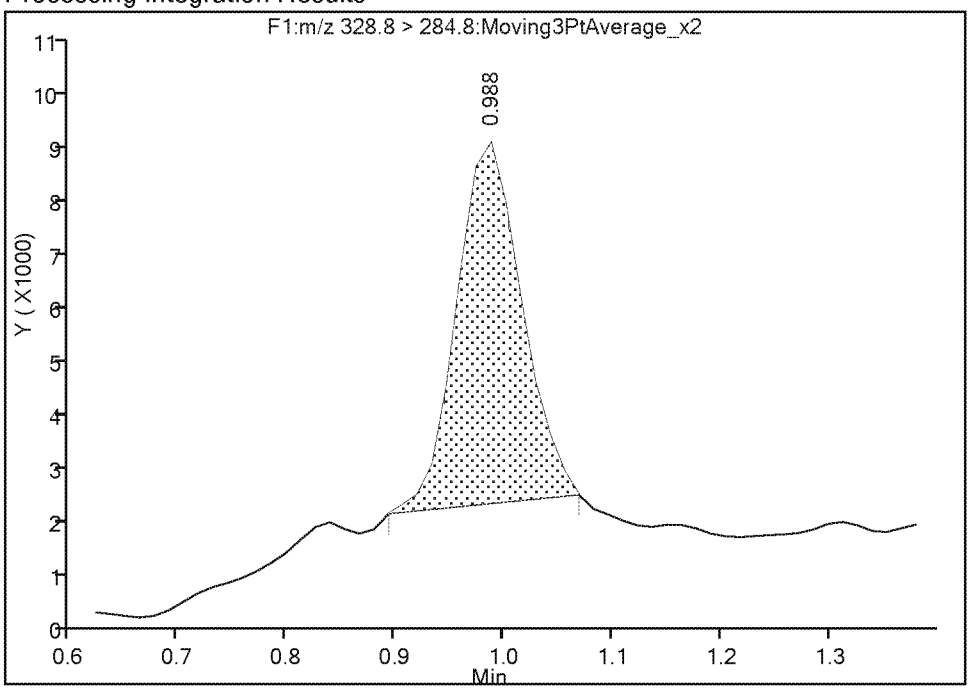
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12089.d				
Injection Date:	12-Feb-2018 15:03:40	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-5-A	Lab Sample ID:	280-106036-5		
Client ID:	FAY-D-6644TABOR-W2-1-020118				
Operator ID:	JBH	ALS Bottle#:	10	Worklist Smp#:	56
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

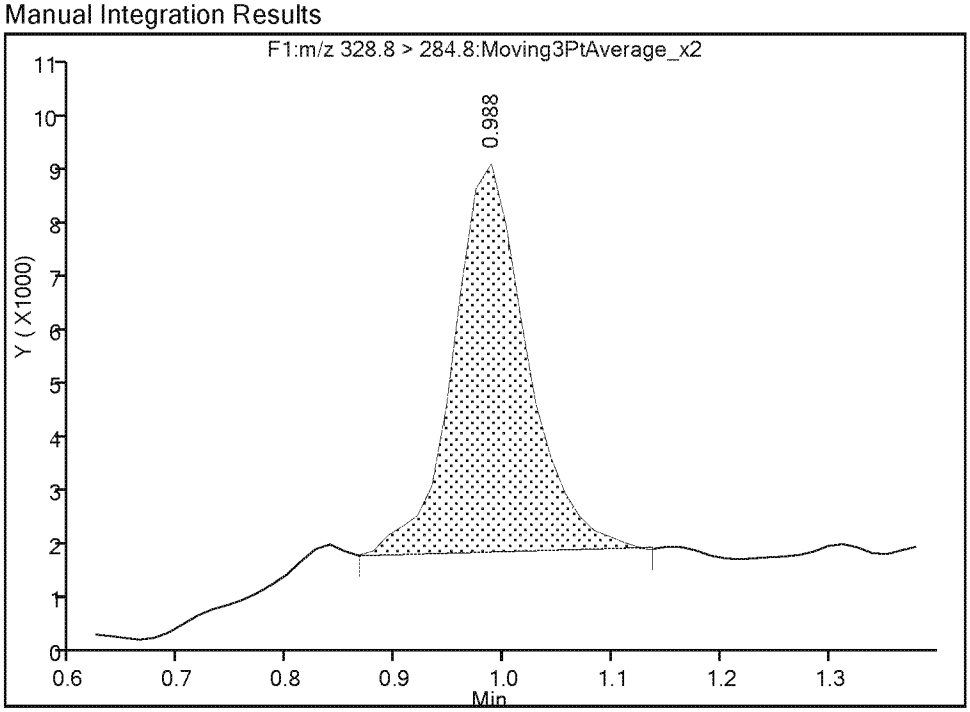
Processing Integration Results

RT: 0.99
Area: 26342
Amount: 0.456430
Amount Units: ug/l



Manual Integration Results

RT: 0.99
Area: 32060
Amount: 0.562878
Amount Units: ug/l



Reviewer: meyera, 13-Feb-2018 07:47:37

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6808TABOR-W1-1-020118 Lab Sample ID: 280-106036-6

Matrix: Water Lab File ID: hfpo718B12090.d

Analysis Method: 8321A Date Collected: 02/01/2018 10:45

Extraction Method: 3535 Date Extracted: 02/11/2018 11:55

Sample wt/vol: 273.9(mL) Date Analyzed: 02/12/2018 15:06

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Synergi Hydro ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	69		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12090.d
Lims ID: 280-106036-D-6-A
Client ID: FAY-D-6808TABOR-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 15:06:54 ALS Bottle#: 11 Worklist Smp#: 57
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-D-6-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:45

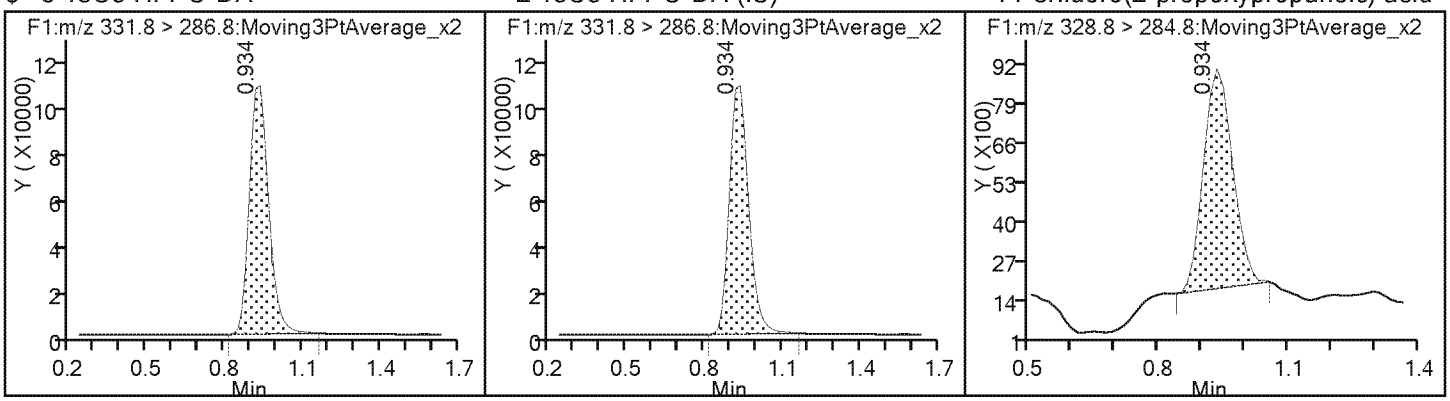
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	512260	6.86	1047	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		512260	10.0	1047	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	33180	0.5749	8.8	

Report Date: 13-Feb-2018 07:56:23 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12090.d				
Injection Date:	12-Feb-2018 15:06:54	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-D-6-A	Lab Sample ID:	280-106036-6		
Client ID:	FAY-D-6808TABOR-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	11	Worklist Smp#:	57
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12090.d				
Lims ID:	280-106036-D-6-A				
Client ID:	FAY-D-6808TABOR-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:06:54	ALS Bottle#:	11	Worklist Smp#:	57
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-D-6-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:21	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.86	68.61

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6838TABOR-W1-1-020118 Lab Sample ID: 280-106036-7

Matrix: Water Lab File ID: hfpo718B12091.d

Analysis Method: 8321A Date Collected: 02/01/2018 11:03

Extraction Method: 3535 Date Extracted: 02/11/2018 11:55

Sample wt/vol: 271.5(mL) Date Analyzed: 02/12/2018 15:10

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Synergi Hydro ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.012		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	70		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12091.d
Lims ID: 280-106036-A-7-A
Client ID: FAY-D-6838TABOR-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 15:10:09 ALS Bottle#: 12 Worklist Smp#: 58
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-7-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:48

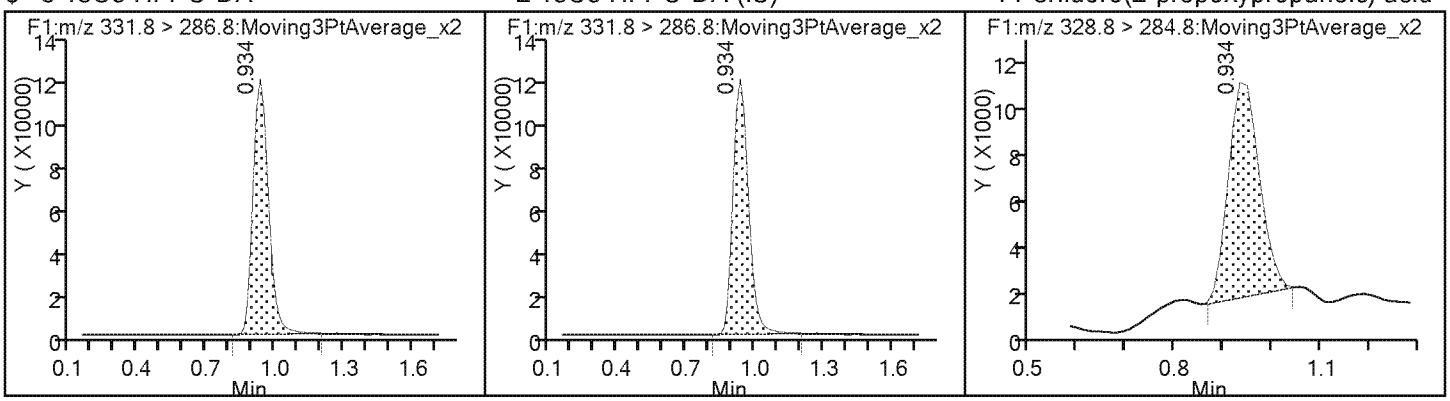
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	520131	6.97	1423	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		520131	10.0	1423	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	39115	0.6730	10.4	

Report Date: 13-Feb-2018 07:56:24 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12091.d				
Injection Date:	12-Feb-2018 15:10:09	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-7-A	Lab Sample ID:	280-106036-7		
Client ID:	FAY-D-6838TABOR-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	12	Worklist Smp#:	58
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12091.d				
Lims ID:	280-106036-A-7-A				
Client ID:	FAY-D-6838TABOR-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:10:09	ALS Bottle#:	12	Worklist Smp#:	58
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-7-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:21	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.97	69.67

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6838TABOR-W2-1-020118 | Lab Sample ID: 280-106036-8

Matrix: Water | Lab File ID: hfpo718B12092.d

Analysis Method: 8321A | Date Collected: 02/01/2018 11:04

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 281.2(mL) | Date Analyzed: 02/12/2018 15:13

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	69		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12092.d
Lims ID: 280-106036-C-8-A
Client ID: FAY-D-6838TABOR-W2-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 15:13:23 ALS Bottle#: 13 Worklist Smp#: 59
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-C-8-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:51

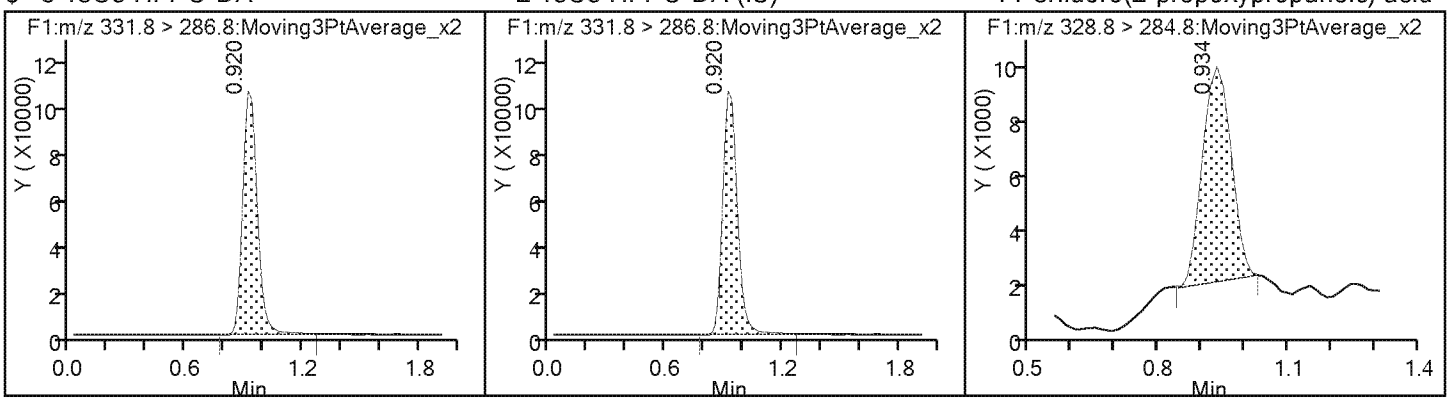
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	517790	6.94	1552	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		517790	10.0	1552	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	33642	0.5768	9.5	

Report Date: 13-Feb-2018 07:56:25 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12092.d				
Injection Date:	12-Feb-2018 15:13:23	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-C-8-A	Lab Sample ID:	280-106036-8		
Client ID:	FAY-D-6838TABOR-W2-1-020118				
Operator ID:	JBH	ALS Bottle#:	13	Worklist Smp#:	59
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12092.d				
Lims ID:	280-106036-C-8-A				
Client ID:	FAY-D-6838TABOR-W2-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:13:23	ALS Bottle#:	13	Worklist Smp#:	59
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-C-8-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:21	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.94	69.35

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6858TABOR-W1-1-020118 | Lab Sample ID: 280-106036-9

Matrix: Water | Lab File ID: hfpo718B12093.d

Analysis Method: 8321A | Date Collected: 02/01/2018 11:13

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 301.4(mL) | Date Analyzed: 02/12/2018 15:16

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.025		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	71		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12093.d
Lims ID: 280-106036-C-9-A
Client ID: FAY-D-6858TABOR-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 15:16:38 ALS Bottle#: 14 Worklist Smp#: 60
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-C-9-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:55

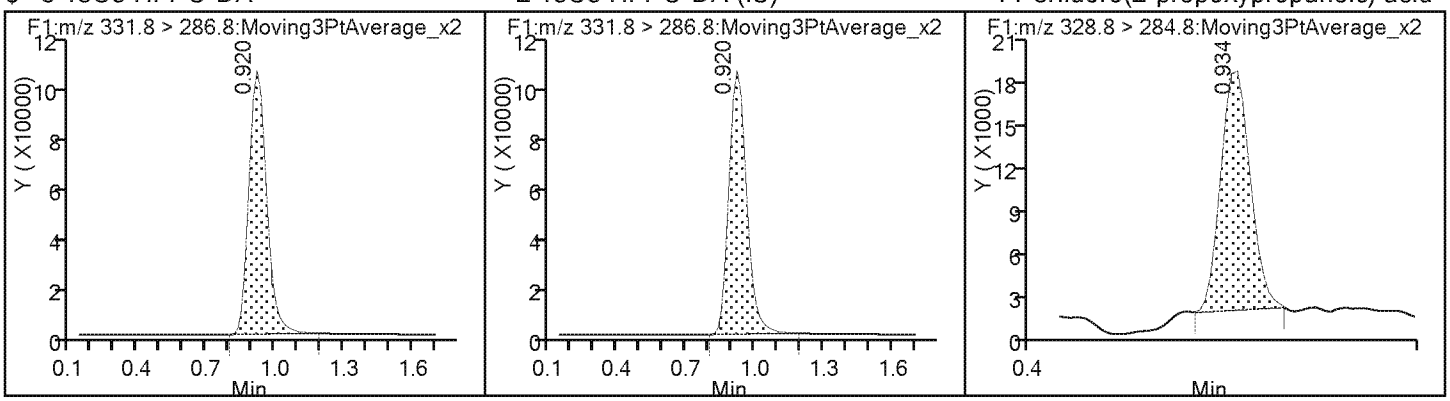
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	528646	7.08	1212	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		528646	10.0	1212	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	85002	1.48	16.2	

Report Date: 13-Feb-2018 07:56:25 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12093.d				
Injection Date:	12-Feb-2018 15:16:38	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-C-9-A	Lab Sample ID:	280-106036-9		
Client ID:	FAY-D-6858TABOR-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	14	Worklist Smp#:	60
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12093.d				
Lims ID:	280-106036-C-9-A				
Client ID:	FAY-D-6858TABOR-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:16:38	ALS Bottle#:	14	Worklist Smp#:	60
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-C-9-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:21	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.08	70.81

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-7047TABOR-W1-1-020118 Lab Sample ID: 280-106036-10

Matrix: Water Lab File ID: hfpo718B12094.d

Analysis Method: 8321A Date Collected: 02/01/2018 11:51

Extraction Method: 3535 Date Extracted: 02/11/2018 11:55

Sample wt/vol: 276.9(mL) Date Analyzed: 02/12/2018 15:19

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Synergi Hydro ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.13		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	72		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12094.d
Lims ID: 280-106036-A-10-A
Client ID: FAY-D-7047TABOR-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 15:19:52 ALS Bottle#: 15 Worklist Smp#: 61
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-10-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:58

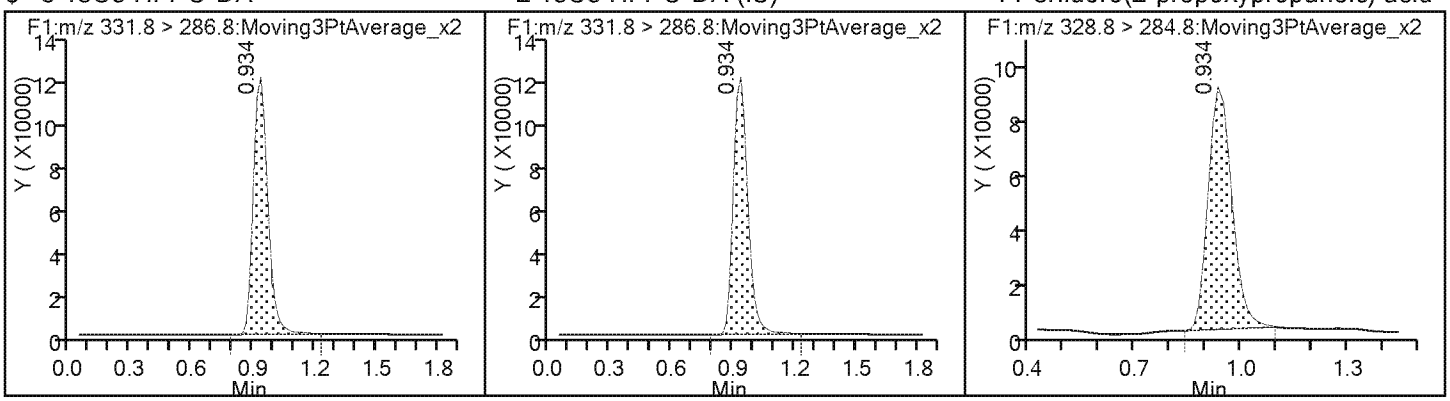
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	536738	7.19	1377	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		536738	10.0	1377	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	400681	6.98	84.1	

Report Date: 13-Feb-2018 07:56:26 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12094.d				
Injection Date:	12-Feb-2018 15:19:52	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-10-A	Lab Sample ID:	280-106036-10		
Client ID:	FAY-D-7047TABOR-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	15	Worklist Smp#:	61
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12094.d				
Lims ID:	280-106036-A-10-A				
Client ID:	FAY-D-7047TABOR-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:19:52	ALS Bottle#:	15	Worklist Smp#:	61
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-10-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:21	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.19	71.89

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-5049MATTH-W1-1-020118 | Lab Sample ID: 280-106036-11

Matrix: Water | Lab File ID: hfpo718B12095.d

Analysis Method: 8321A | Date Collected: 02/01/2018 13:48

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 287.7(mL) | Date Analyzed: 02/12/2018 15:23

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.11		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	77		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12095.d
Lims ID: 280-106036-A-11-A
Client ID: FAY-D-5049MATTH-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 15:23:07 ALS Bottle#: 16 Worklist Smp#: 62
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-11-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:02

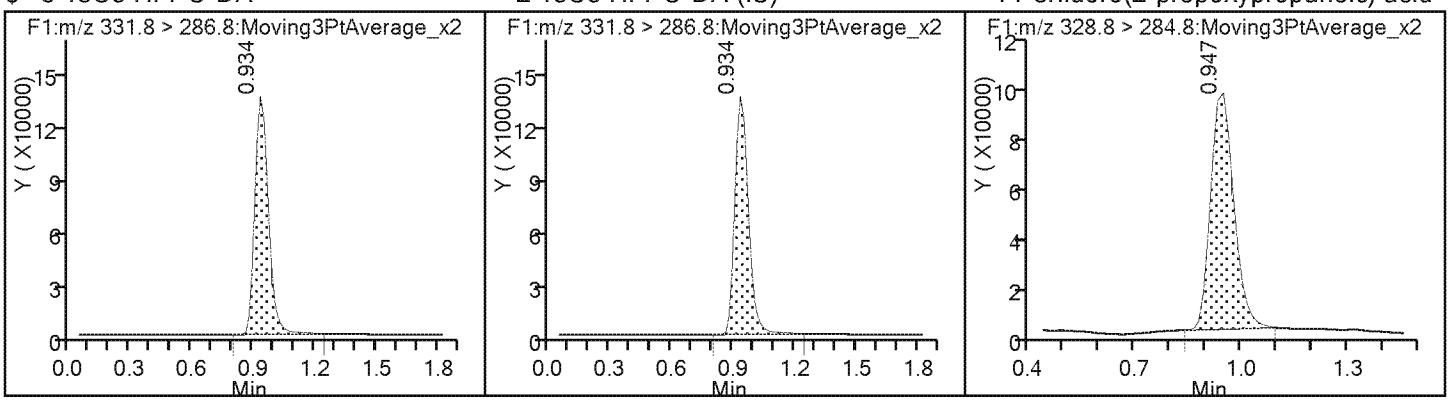
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	573508	7.68	1677	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		573508	10.0	1677	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	387101	6.31	87.0	

Report Date: 13-Feb-2018 07:56:27 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12095.d				
Injection Date:	12-Feb-2018 15:23:07	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-11-A	Lab Sample ID:	280-106036-11		
Client ID:	FAY-D-5049MATTH-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	16	Worklist Smp#:	62
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12095.d				
Lims ID:	280-106036-A-11-A				
Client ID:	FAY-D-5049MATTH-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:23:07	ALS Bottle#:	16	Worklist Smp#:	62
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-11-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:21	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.68	76.82

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-7646TABOR-W1-1-02018 | Lab Sample ID: 280-106036-12

Matrix: Water | Lab File ID: hfpo718B12098.d

Analysis Method: 8321A | Date Collected: 02/01/2018 14:55

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 282.4(mL) | Date Analyzed: 02/12/2018 15:32

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.029		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	69		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12098.d
Lims ID: 280-106036-A-12-A
Client ID: FAY-D-7646TABOR-W1-02018
Sample Type: Client
Inject. Date: 12-Feb-2018 15:32:51 ALS Bottle#: 19 Worklist Smp#: 65
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-12-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:11

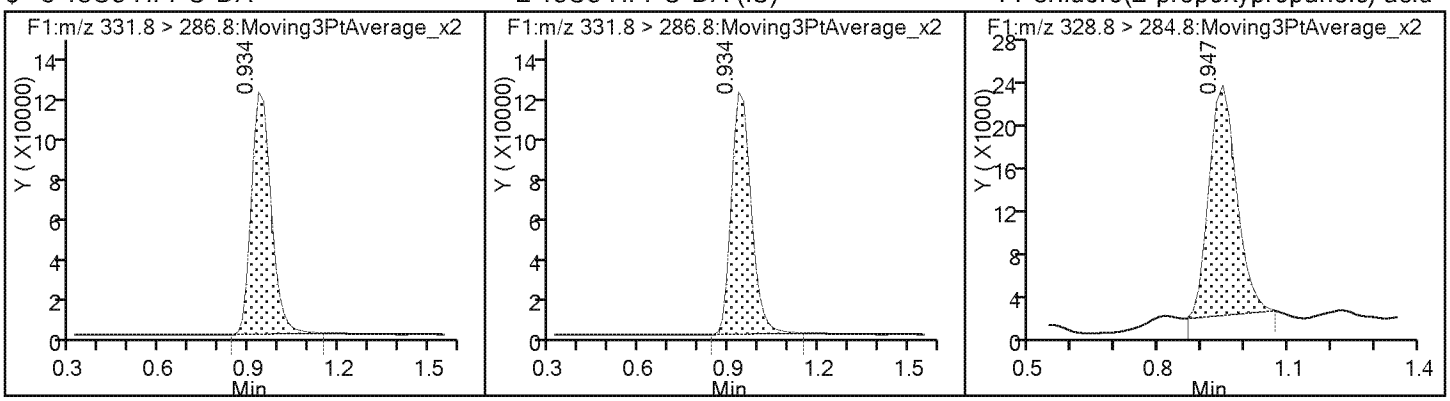
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	518570	6.95	1196	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		518570	10.0	1196	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	92456	1.64	21.7	

Report Date: 13-Feb-2018 07:56:29 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12098.d				
Injection Date:	12-Feb-2018 15:32:51	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-12-A	Lab Sample ID:	280-106036-12		
Client ID:	FAY-D-7646TABOR-W1-02018				
Operator ID:	JBH	ALS Bottle#:	19	Worklist Smp#:	65
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12098.d				
Lims ID:	280-106036-A-12-A				
Client ID:	FAY-D-7646TABOR-W1-02018				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:32:51	ALS Bottle#:	19	Worklist Smp#:	65
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-12-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:21	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.95	69.46

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6731BUTLE-W1-1-020118 Lab Sample ID: 280-106036-13

Matrix: Water Lab File ID: hfpo718B12100.d

Analysis Method: 8321A Date Collected: 02/01/2018 08:24

Extraction Method: 3535 Date Extracted: 02/11/2018 11:55

Sample wt/vol: 293.9(mL) Date Analyzed: 02/12/2018 15:39

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Synergi Hydro ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	76		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12100.d				
Lims ID:	280-106036-C-13-A				
Client ID:	FAY-D-6731BUTLE-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:39:21	ALS Bottle#:	20	Worklist Smp#:	67
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-C-13-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:29	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:18

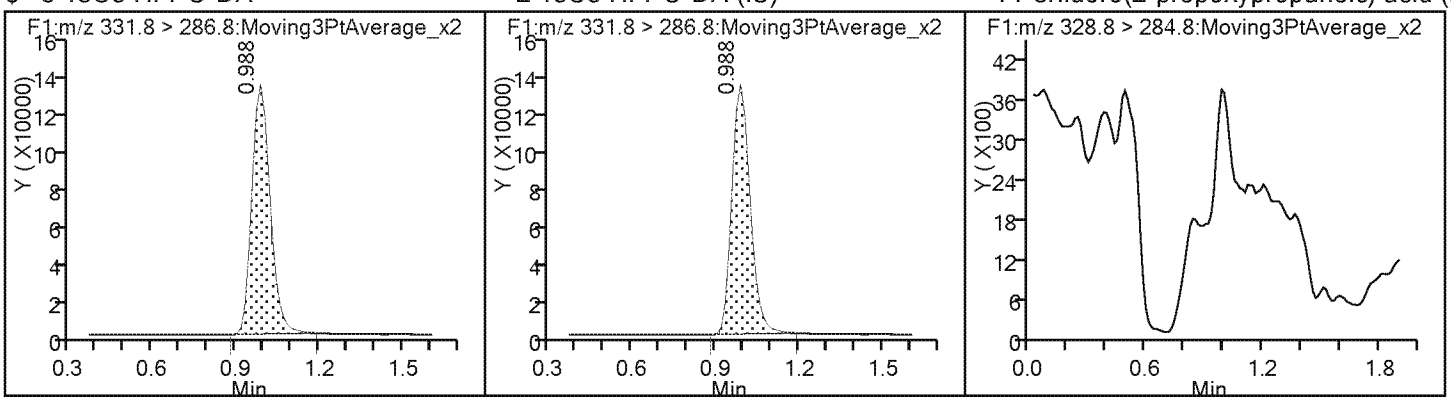
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.988	1.045	-0.057	1.000	565549	7.58	1332	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.988	1.045	-0.057		565549	10.0	1332	

Report Date: 13-Feb-2018 07:56:30 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12100.d				
Injection Date:	12-Feb-2018 15:39:21	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-C-13-A	Lab Sample ID:	280-106036-13		
Client ID:	FAY-D-6731BUTLE-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	20	Worklist Smp#:	67
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12100.d				
Lims ID:	280-106036-C-13-A				
Client ID:	FAY-D-6731BUTLE-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:39:21	ALS Bottle#:	20	Worklist Smp#:	67
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-C-13-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:29	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.58	75.75

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6731BUTLE-W1-2-020118 | Lab Sample ID: 280-106036-14

Matrix: Water | Lab File ID: hfpo718B12101.d

Analysis Method: 8321A | Date Collected: 02/01/2018 08:26

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 289.4(mL) | Date Analyzed: 02/12/2018 15:42

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	77		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12101.d				
Lims ID:	280-106036-B-14-A				
Client ID:	FAY-D-6731BUTLE-W1-2-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:42:36	ALS Bottle#:	21	Worklist Smp#:	68
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-B-14-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:29	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:21

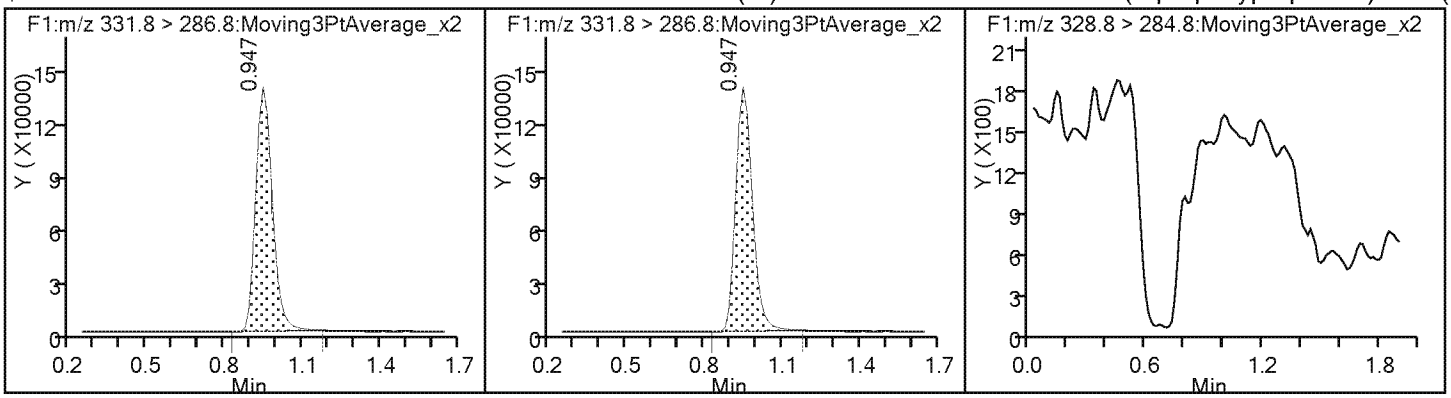
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	578491	7.75	1546	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		578491	10.0	1546	

Report Date: 13-Feb-2018 07:56:31 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12101.d				
Injection Date:	12-Feb-2018 15:42:36	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-B-14-A	Lab Sample ID:	280-106036-14		
Client ID:	FAY-D-6731BUTLE-W1-2-020118				
Operator ID:	JBH	ALS Bottle#:	21	Worklist Smp#:	68
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12101.d				
Lims ID:	280-106036-B-14-A				
Client ID:	FAY-D-6731BUTLE-W1-2-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:42:36	ALS Bottle#:	21	Worklist Smp#:	68
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-B-14-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:29	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.75	77.48

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6815BUTLE-W1-1-020118 | Lab Sample ID: 280-106036-15

Matrix: Water | Lab File ID: hfpo718B12102.d

Analysis Method: 8321A | Date Collected: 02/01/2018 08:53

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 272.2(mL) | Date Analyzed: 02/12/2018 15:45

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.021		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	83		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12102.d
Lims ID: 280-106036-A-15-A
Client ID: FAY-D-6815BUTLE-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 15:45:52 ALS Bottle#: 22 Worklist Smp#: 69
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-15-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:29 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:24

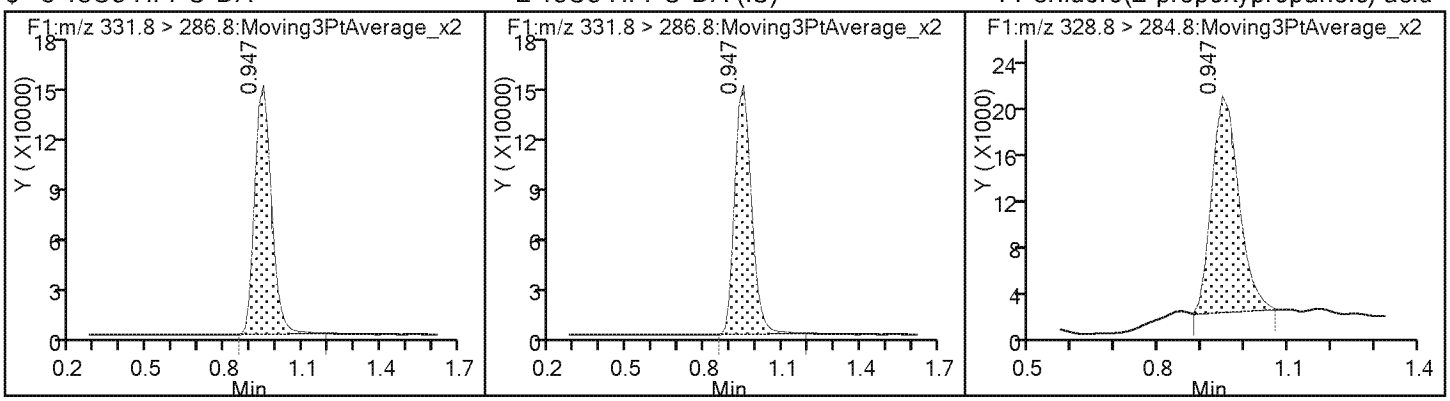
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	622819	8.34	1296	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		622819	10.0	1296	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	78323	1.15	17.8	

Report Date: 13-Feb-2018 07:56:32 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12102.d				
Injection Date:	12-Feb-2018 15:45:52	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-15-A	Lab Sample ID:	280-106036-15		
Client ID:	FAY-D-6815BUTLE-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	22	Worklist Smp#:	69
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12102.d				
Lims ID:	280-106036-A-15-A				
Client ID:	FAY-D-6815BUTLE-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:45:52	ALS Bottle#:	22	Worklist Smp#:	69
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-15-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:29	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.34	83.42

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6893BUTLE-W1-1-020118 | Lab Sample ID: 280-106036-16

Matrix: Water | Lab File ID: hfpo718B12103.d

Analysis Method: 8321A | Date Collected: 02/01/2018 09:44

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 287.5(mL) | Date Analyzed: 02/12/2018 15:49

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.042		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	77		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12103.d
Lims ID: 280-106036-C-16-A
Client ID: FAY-D-6893BUTLE-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 15:49:07 ALS Bottle#: 23 Worklist Smp#: 70
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-C-16-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:29 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:28

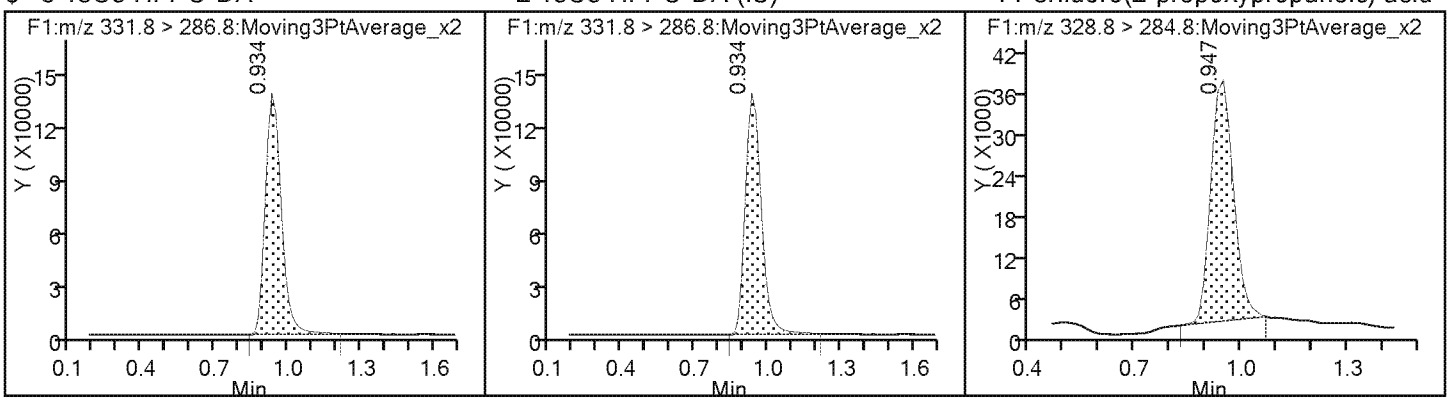
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	574225	7.69	1617	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		574225	10.0	1617	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	150879	2.44	32.6	

Report Date: 13-Feb-2018 07:56:32 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12103.d				
Injection Date:	12-Feb-2018 15:49:07	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-C-16-A	Lab Sample ID:	280-106036-16		
Client ID:	FAY-D-6893BUTLE-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	23	Worklist Smp#:	70
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12103.d				
Lims ID:	280-106036-C-16-A				
Client ID:	FAY-D-6893BUTLE-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:49:07	ALS Bottle#:	23	Worklist Smp#:	70
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-C-16-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:29	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.69	76.91

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-5018MRSHR-W1-1-020118 | Lab Sample ID: 280-106036-17

Matrix: Water | Lab File ID: hfpo718B12104.d

Analysis Method: 8321A | Date Collected: 02/01/2018 11:13

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 292.2(mL) | Date Analyzed: 02/12/2018 15:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.031		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	69		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12104.d
Lims ID: 280-106036-B-17-A
Client ID: FAY-D-5018MRSHR-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 15:52:22 ALS Bottle#: 24 Worklist Smp#: 71
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-B-17-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:29 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:31

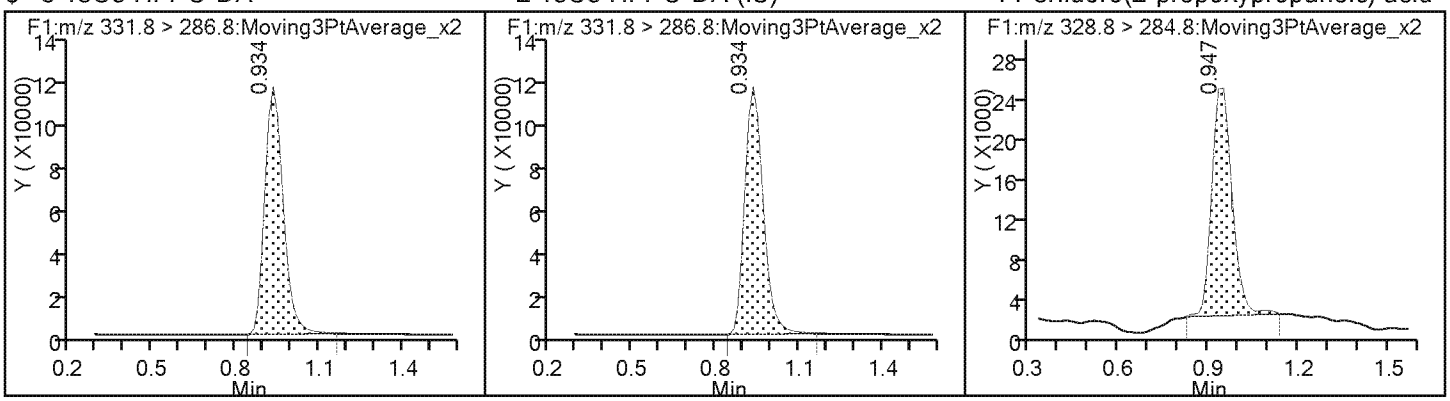
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	514039	6.89	1210	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		514039	10.0	1210	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	102109	1.83	26.3	

Report Date: 13-Feb-2018 07:56:33 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12104.d				
Injection Date:	12-Feb-2018 15:52:22	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-B-17-A	Lab Sample ID:	280-106036-17		
Client ID:	FAY-D-5018MRSHR-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	24	Worklist Smp#:	71
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12104.d				
Lims ID:	280-106036-B-17-A				
Client ID:	FAY-D-5018MRSHR-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:52:22	ALS Bottle#:	24	Worklist Smp#:	71
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-B-17-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:29	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.89	68.85

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-5018MRSHR-W1-2-020118 | Lab Sample ID: 280-106036-18

Matrix: Water | Lab File ID: hfpo718B12105.d

Analysis Method: 8321A | Date Collected: 02/01/2018 11:13

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 293.3(mL) | Date Analyzed: 02/12/2018 15:55

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.023		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	73		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12105.d
Lims ID: 280-106036-A-18-A
Client ID: FAY-D-5018MRSHR-W1-2-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 15:55:37 ALS Bottle#: 25 Worklist Smp#: 72
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-18-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:29 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:36

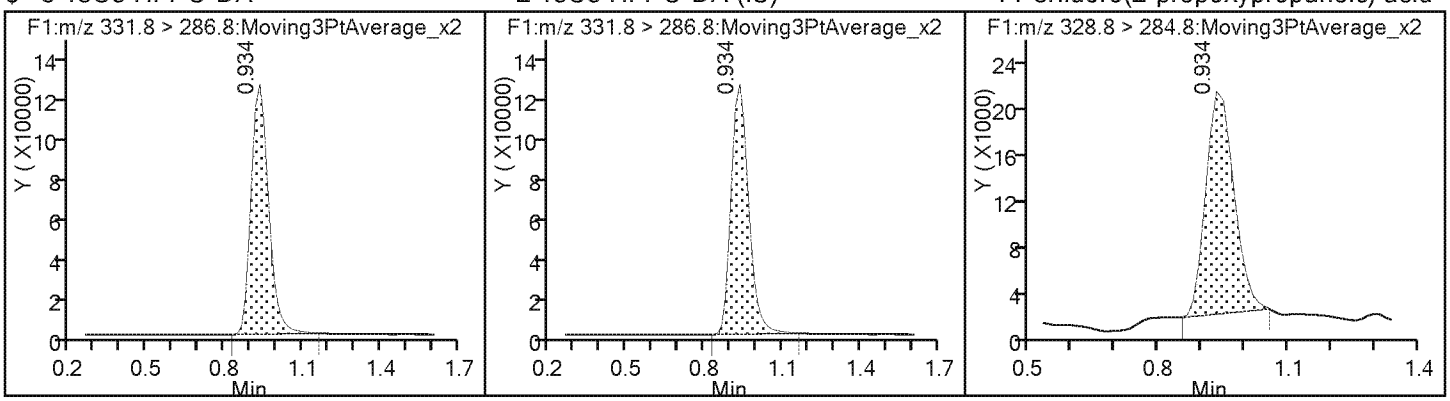
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	543174	7.28	1363	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		543174	10.0	1363	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	81216	1.37	22.1	

Report Date: 13-Feb-2018 07:56:33 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12105.d				
Injection Date:	12-Feb-2018 15:55:37	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-18-A	Lab Sample ID:	280-106036-18		
Client ID:	FAY-D-5018MRSHR-W1-2-020118				
Operator ID:	JBH	ALS Bottle#:	25	Worklist Smp#:	72
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12105.d				
Lims ID:	280-106036-A-18-A				
Client ID:	FAY-D-5018MRSHR-W1-2-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 15:55:37	ALS Bottle#:	25	Worklist Smp#:	72
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-18-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:29	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.28	72.75

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-5021MRSHR-W1-1-020118 | Lab Sample ID: 280-106036-19

Matrix: Water | Lab File ID: hfpo718B12111.d

Analysis Method: 8321A | Date Collected: 02/01/2018 11:44

Extraction Method: 3535 | Date Extracted: 02/11/2018 19:22

Sample wt/vol: 296.6(mL) | Date Analyzed: 02/12/2018 16:15

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404643 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.015		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	67		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12111.d
Lims ID: 280-106036-C-19-A
Client ID: FAY-D-5021MRSHR-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 16:15:12 ALS Bottle#: 30 Worklist Smp#: 78
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-C-19-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:33 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:34

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	499214	6.69	1720	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		499214	10.0	1720	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.934	1.056	-0.122	1.000	48730	0.8836	9.1	M

QC Flag Legend

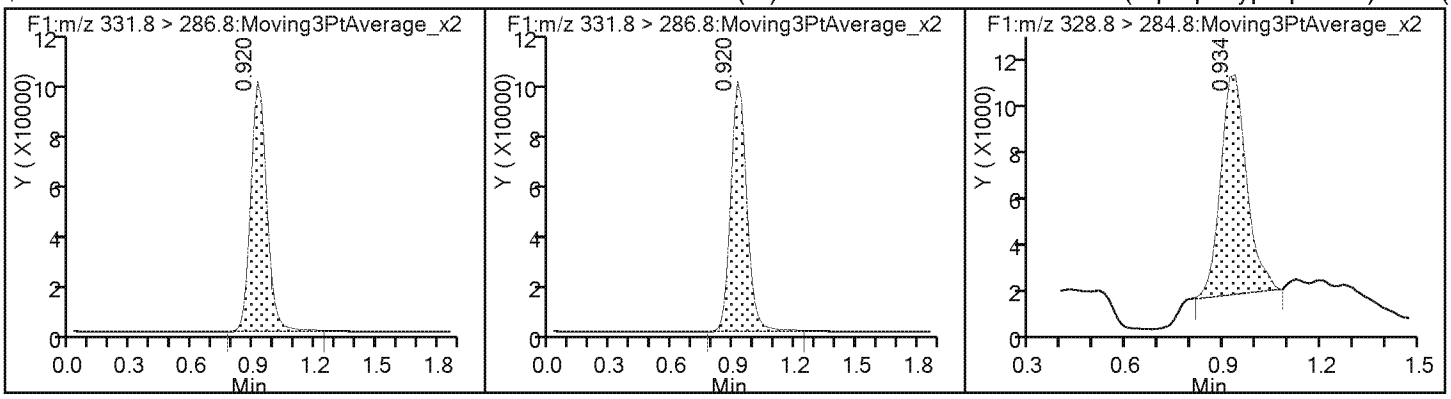
Review Flags
M - Manually Integrated

Report Date: 13-Feb-2018 07:56:36 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12111.d				
Injection Date:	12-Feb-2018 16:15:12	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-C-19-A	Lab Sample ID:	280-106036-19		
Client ID:	FAY-D-5021MRSHR-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	30	Worklist Smp#:	78
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12111.d				
Lims ID:	280-106036-C-19-A				
Client ID:	FAY-D-5021MRSHR-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 16:15:12	ALS Bottle#:	30	Worklist Smp#:	78
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-C-19-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:33	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.69	66.87

Manual Integration/User Assign Peak Report

TestAmerica Denver

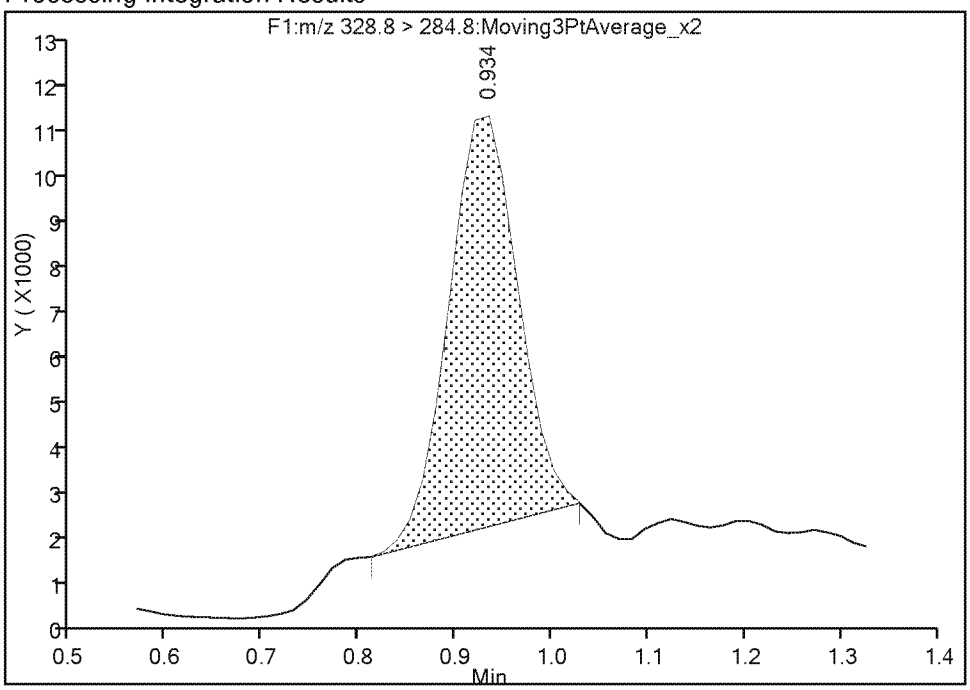
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12111.d				
Injection Date:	12-Feb-2018 16:15:12	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-C-19-A	Lab Sample ID:	280-106036-19		
Client ID:	FAY-D-5021MRSHR-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	30	Worklist Smp#:	78
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

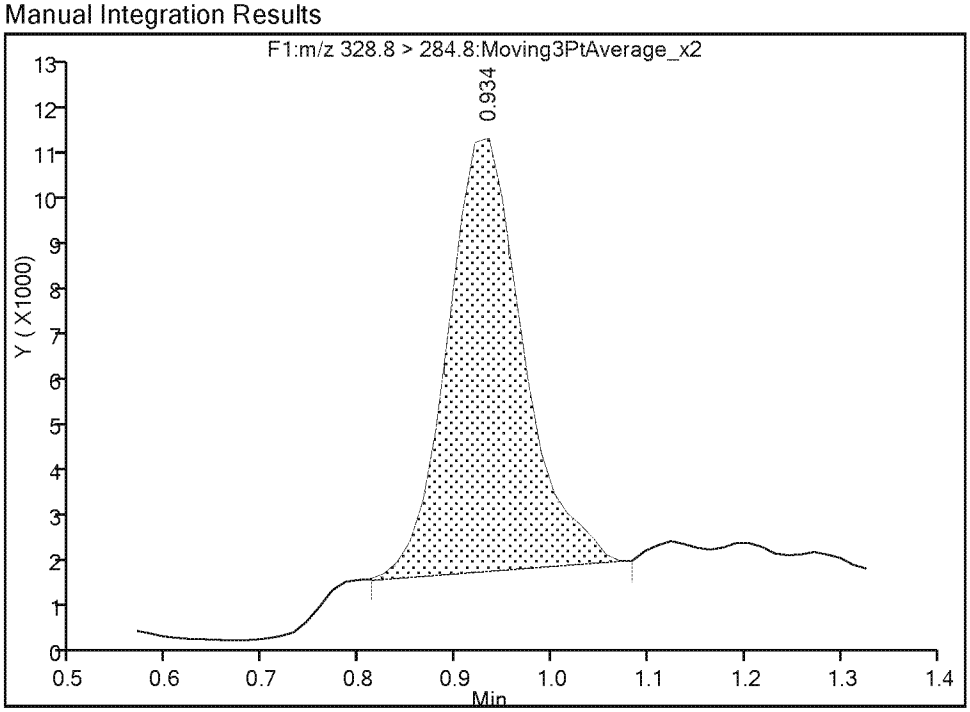
Processing Integration Results

RT: 0.93
Area: 42403
Amount: 0.764491
Amount Units: ug/l



Manual Integration Results

RT: 0.93
Area: 48730
Amount: 0.883630
Amount Units: ug/l



Reviewer: meyera, 13-Feb-2018 07:49:32

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-5021MRSHR-W1-2-020118 | Lab Sample ID: 280-106036-20

Matrix: Water | Lab File ID: hfpo718B12112.d

Analysis Method: 8321A | Date Collected: 02/01/2018 11:48

Extraction Method: 3535 | Date Extracted: 02/11/2018 19:22

Sample wt/vol: 288.6(mL) | Date Analyzed: 02/12/2018 16:18

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404643 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	76		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12112.d
Lims ID: 280-106036-D-20-A
Client ID: FAY-D-5021MRSHR-W1-2-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 16:18:27 ALS Bottle#: 31 Worklist Smp#: 79
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-D-20-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:33 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:47

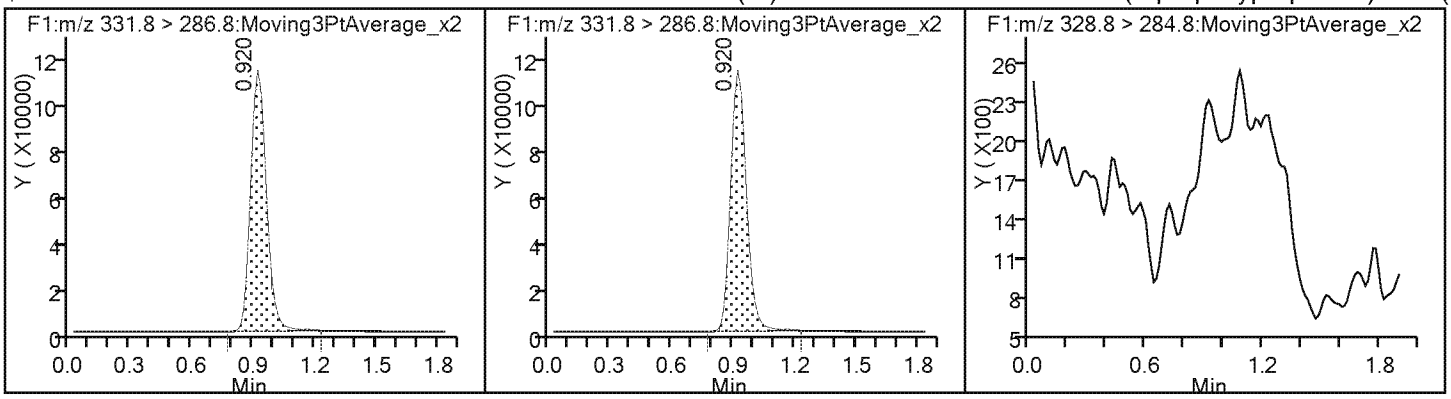
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	564612	7.56	1306	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		564612	10.0	1306	

Report Date: 13-Feb-2018 07:56:37 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12112.d				
Injection Date:	12-Feb-2018 16:18:27	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-D-20-A	Lab Sample ID:	280-106036-20		
Client ID:	FAY-D-5021MRSHR-W1-2-020118				
Operator ID:	JBH	ALS Bottle#:	31	Worklist Smp#:	79
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12112.d				
Lims ID:	280-106036-D-20-A				
Client ID:	FAY-D-5021MRSHR-W1-2-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 16:18:27	ALS Bottle#:	31	Worklist Smp#:	79
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-D-20-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:33	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.56	75.62

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-4065SPNSH-W1-1-020118 | Lab Sample ID: 280-106036-21

Matrix: Water | Lab File ID: hfpo718B12113.d

Analysis Method: 8321A | Date Collected: 02/01/2018 13:51

Extraction Method: 3535 | Date Extracted: 02/11/2018 19:22

Sample wt/vol: 298.3(mL) | Date Analyzed: 02/12/2018 16:21

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404643 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.037		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	67		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12113.d
Lims ID: 280-106036-D-21-A
Client ID: FAY-D-4065SPNSH-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 16:21:44 ALS Bottle#: 32 Worklist Smp#: 80
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-D-21-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:33 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:49

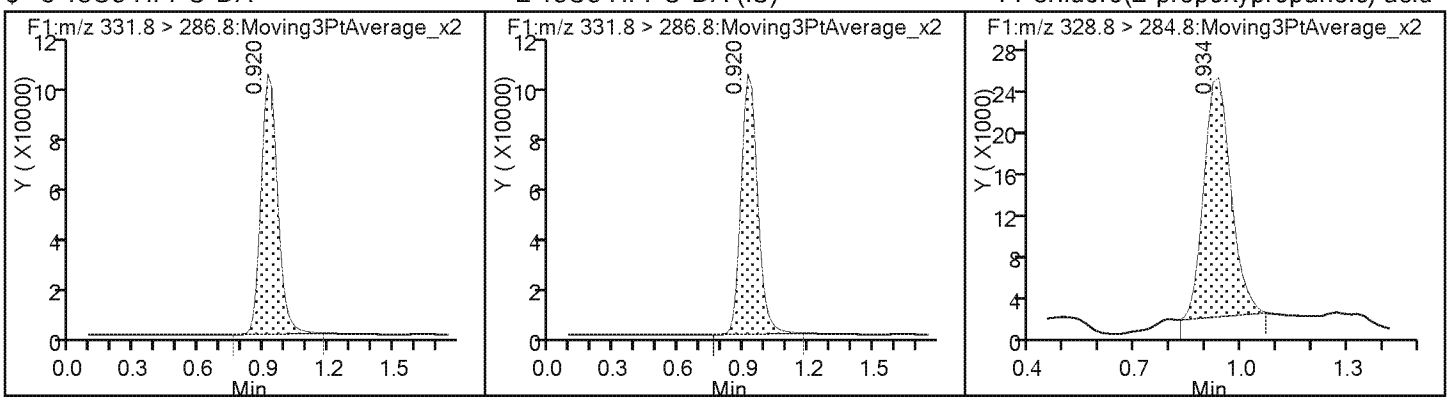
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	503357	6.74	1234	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		503357	10.0	1234	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	119081	2.19	20.8	

Report Date: 13-Feb-2018 07:56:38 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12113.d				
Injection Date:	12-Feb-2018 16:21:44	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-D-21-A	Lab Sample ID:	280-106036-21		
Client ID:	FAY-D-4065SPNSH-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	32	Worklist Smp#:	80
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12113.d				
Lims ID:	280-106036-D-21-A				
Client ID:	FAY-D-4065SPNSH-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 16:21:44	ALS Bottle#:	32	Worklist Smp#:	80
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-D-21-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:33	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.74	67.42

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-4065SPNSH-W1-2-020118 | Lab Sample ID: 280-106036-22

Matrix: Water | Lab File ID: hfpo718B12114.d

Analysis Method: 8321A | Date Collected: 02/01/2018 13:55

Extraction Method: 3535 | Date Extracted: 02/11/2018 19:22

Sample wt/vol: 274.7(mL) | Date Analyzed: 02/12/2018 16:25

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404643 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.029		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	78		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12114.d
Lims ID: 280-106036-A-22-A
Client ID: FAY-D-4065SPNSH-W1-2-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 16:25:00 ALS Bottle#: 33 Worklist Smp#: 81
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-22-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:33 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:51

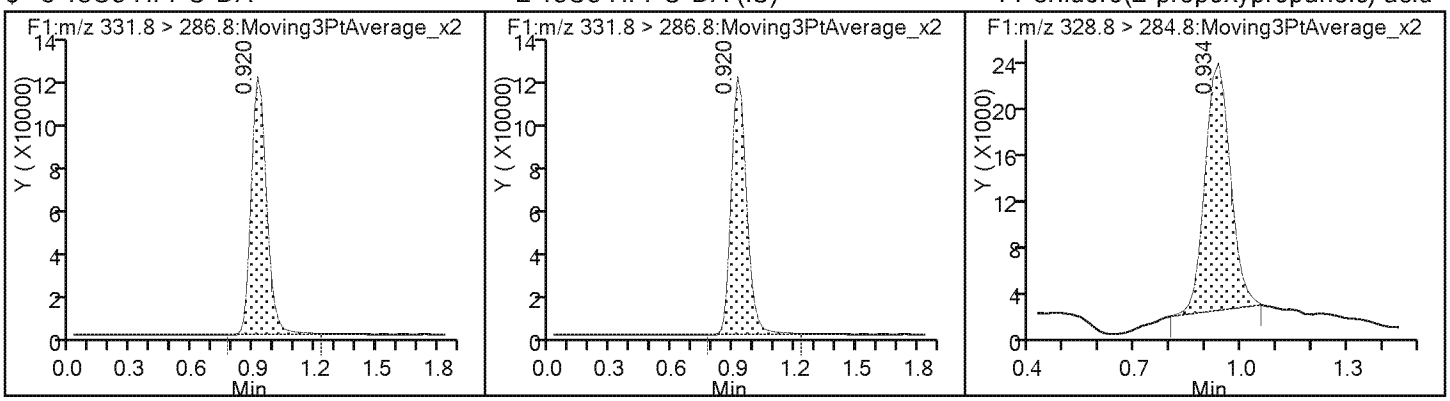
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	583071	7.81	1330	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		583071	10.0	1330	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	102617	1.62	19.5	

Report Date: 13-Feb-2018 07:56:38 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12114.d				
Injection Date:	12-Feb-2018 16:25:00	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-22-A	Lab Sample ID:	280-106036-22		
Client ID:	FAY-D-4065SPNSH-W1-2-020118				
Operator ID:	JBH	ALS Bottle#:	33	Worklist Smp#:	81
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12114.d				
Lims ID:	280-106036-A-22-A				
Client ID:	FAY-D-4065SPNSH-W1-2-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 16:25:00	ALS Bottle#:	33	Worklist Smp#:	81
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-22-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:33	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.81	78.10

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-4057SPNSH-W1-1-020118 Lab Sample ID: 280-106036-23

Matrix: Water Lab File ID: hfpo718B12140.d

Analysis Method: 8321A Date Collected: 02/01/2018 14:34

Extraction Method: 3535 Date Extracted: 02/11/2018 19:44

Sample wt/vol: 278.7(mL) Date Analyzed: 02/12/2018 17:49

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Synergi Hydro ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 404644 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.026		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	75		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12140.d
Lims ID: 280-106036-A-23-A
Client ID: FAY-D-4059SPNSH-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 17:49:55 ALS Bottle#: 19 Worklist Smp#: 107
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-23-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:49 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:08

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	560896	7.51	1057	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		560896	10.0	1057	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	89650	1.47	16.5	

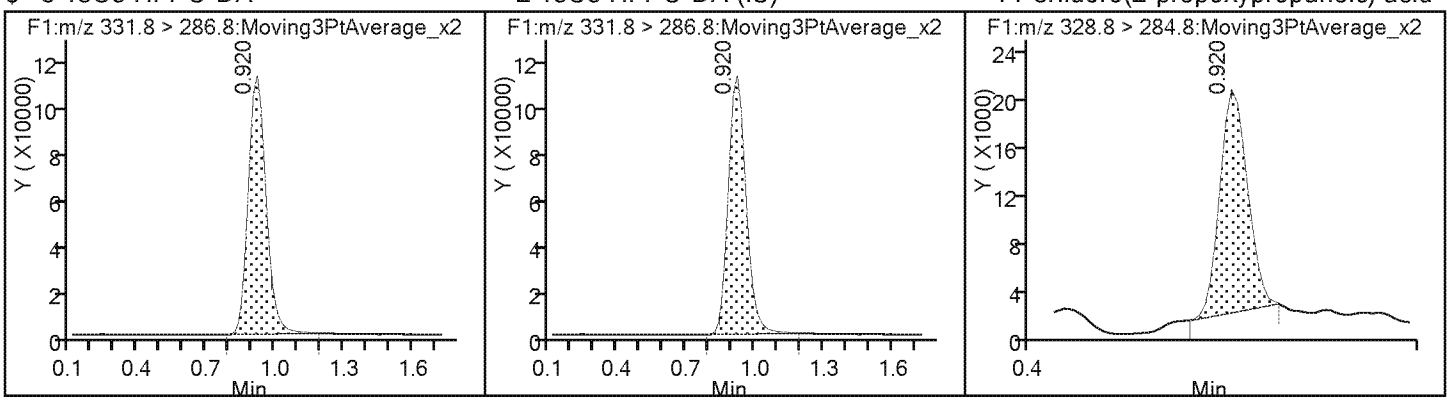
Report Date: 13-Feb-2018 07:56:52 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12140.d

Injection Date:	12-Feb-2018 17:49:55	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-23-A	Lab Sample ID:	280-106036-23		
Client ID:	FAY-D-4059SPNSH-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	19	Worklist Smp#:	107
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12140.d				
Lims ID:	280-106036-A-23-A				
Client ID:	FAY-D-4059SPNSH-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 17:49:55	ALS Bottle#:	19	Worklist Smp#:	107
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-23-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:49	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.51	75.13

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-7265NC87H-W1-1-020118 | Lab Sample ID: 280-106036-24

Matrix: Water | Lab File ID: hfpo718B12141.d

Analysis Method: 8321A | Date Collected: 02/01/2018 09:26

Extraction Method: 3535 | Date Extracted: 02/11/2018 19:44

Sample wt/vol: 285.2(mL) | Date Analyzed: 02/12/2018 17:53

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404644 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.026		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	68		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12141.d
Lims ID: 280-106036-A-24-A
Client ID: FAY-D-7265NC87H-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 17:53:10 ALS Bottle#: 20 Worklist Smp#: 108
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-24-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:49 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:23

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	507637	6.80	893	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		507637	10.0	893	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.920	1.056	-0.136	1.000	81824	1.48	9.0	M

QC Flag Legend

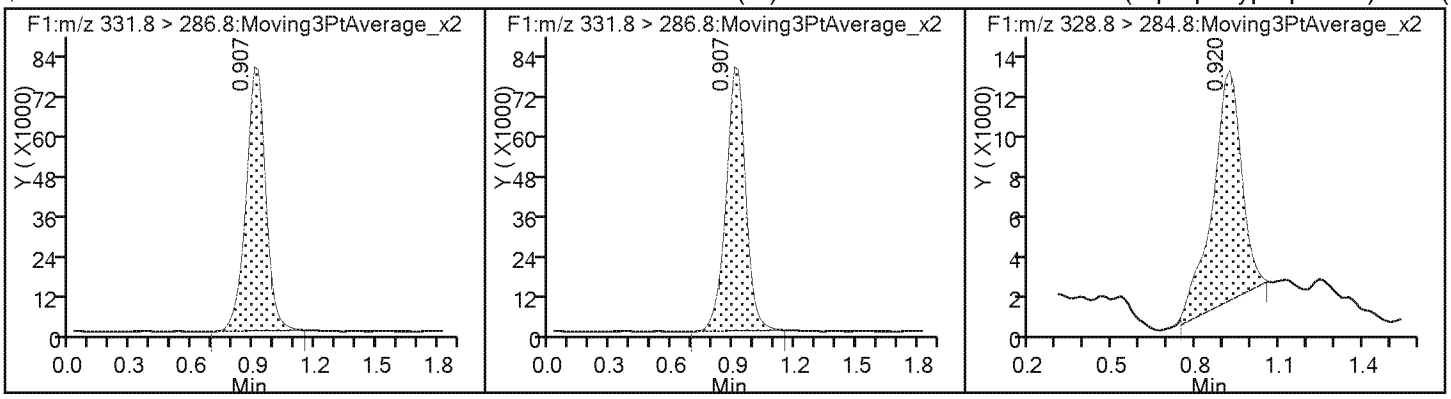
Review Flags
M - Manually Integrated

Report Date: 13-Feb-2018 07:56:53 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12141.d				
Injection Date:	12-Feb-2018 17:53:10	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-24-A	Lab Sample ID:	280-106036-24		
Client ID:	FAY-D-7265NC87H-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	20	Worklist Smp#:	108
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12141.d				
Lims ID:	280-106036-A-24-A				
Client ID:	FAY-D-7265NC87H-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 17:53:10	ALS Bottle#:	20	Worklist Smp#:	108
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-24-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:49	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.80	67.99

Manual Integration/User Assign Peak Report

TestAmerica Denver

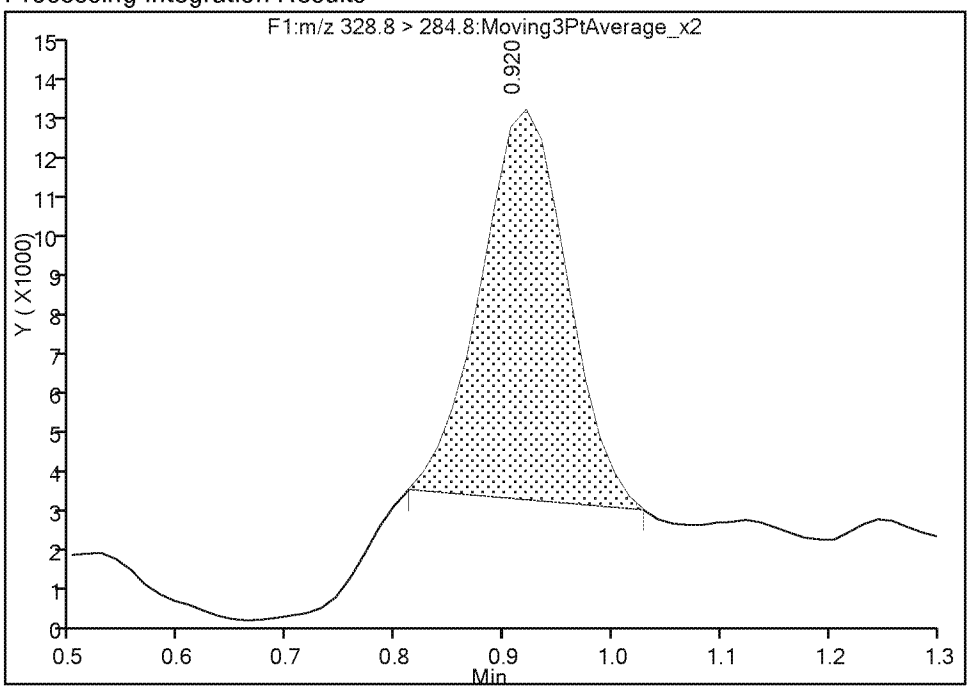
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12141.d				
Injection Date:	12-Feb-2018 17:53:10	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-24-A	Lab Sample ID:	280-106036-24		
Client ID:	FAY-D-7265NC87H-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	20	Worklist Smp#:	108
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

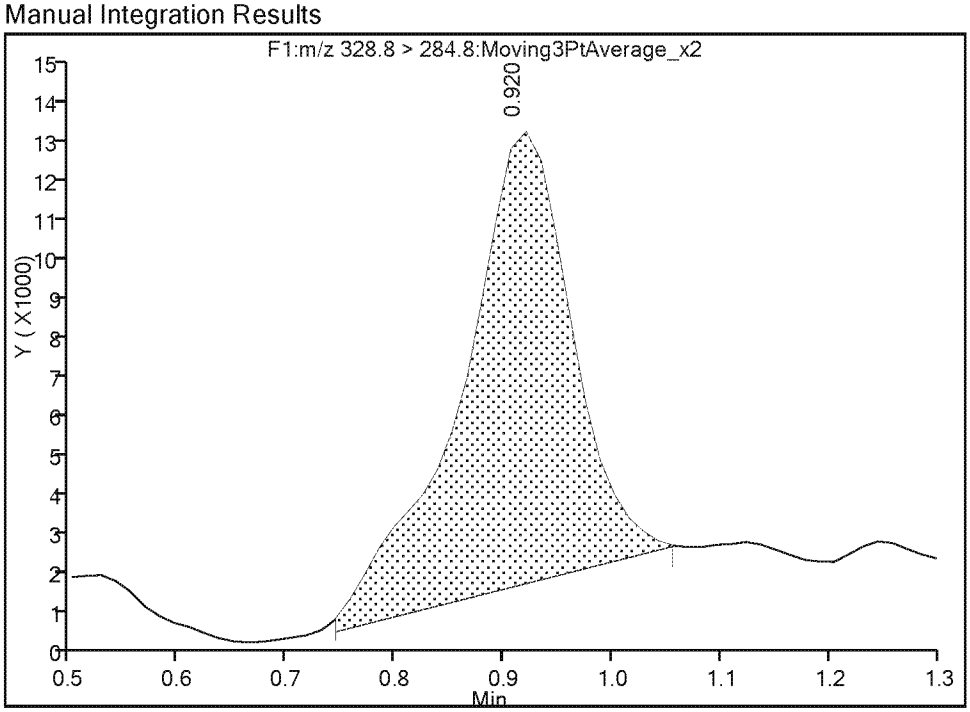
Processing Integration Results

RT: 0.92
Area: 54862
Amount: 0.981955
Amount Units: ug/l



Manual Integration Results

RT: 0.92
Area: 81824
Amount: 1.481229
Amount Units: ug/l



Reviewer: meyera, 13-Feb-2018 07:52:18

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-7394NC87H-W1-1-020118 | Lab Sample ID: 280-106036-25

Matrix: Water | Lab File ID: hfpo718B12142.d

Analysis Method: 8321A | Date Collected: 02/01/2018 10:42

Extraction Method: 3535 | Date Extracted: 02/11/2018 19:44

Sample wt/vol: 281.8(mL) | Date Analyzed: 02/12/2018 17:56

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404644 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.048		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	87		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12142.d
Lims ID: 280-106036-C-25-A
Client ID: FAY-D-7394NC87H-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 17:56:25 ALS Bottle#: 21 Worklist Smp#: 109
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-C-25-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:49 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:25

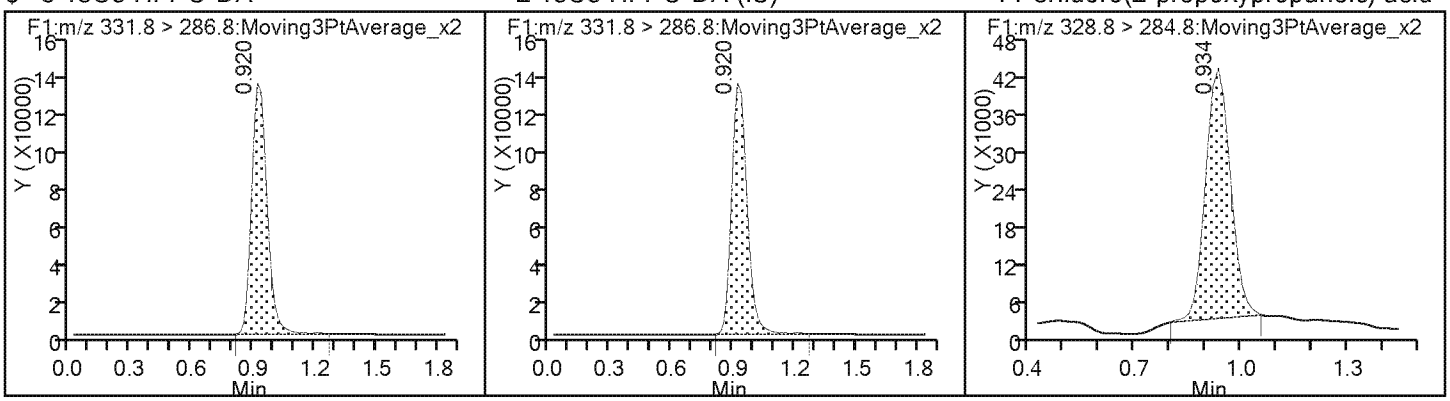
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	649873	8.70	1436	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		649873	10.0	1436	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	189661	2.71	30.8	

Report Date: 13-Feb-2018 07:56:53 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12142.d				
Injection Date:	12-Feb-2018 17:56:25	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-C-25-A	Lab Sample ID:	280-106036-25		
Client ID:	FAY-D-7394NC87H-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	21	Worklist Smp#:	109
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12142.d				
Lims ID:	280-106036-C-25-A				
Client ID:	FAY-D-7394NC87H-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 17:56:25	ALS Bottle#:	21	Worklist Smp#:	109
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-C-25-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:49	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:25

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.70	87.04

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6711CHKFT-W1-1-020118 | Lab Sample ID: 280-106036-26

Matrix: Water | Lab File ID: hfpo718B12143.d

Analysis Method: 8321A | Date Collected: 02/01/2018 11:52

Extraction Method: 3535 | Date Extracted: 02/11/2018 19:44

Sample wt/vol: 290.1(mL) | Date Analyzed: 02/12/2018 17:59

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404644 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.083		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	76		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12143.d
Lims ID: 280-106036-A-26-A
Client ID: FAY-D-6711CHKFT-W1-1-020118
Sample Type: Client
Inject. Date: 12-Feb-2018 17:59:40 ALS Bottle#: 22 Worklist Smp#: 110
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-26-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:49 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:27

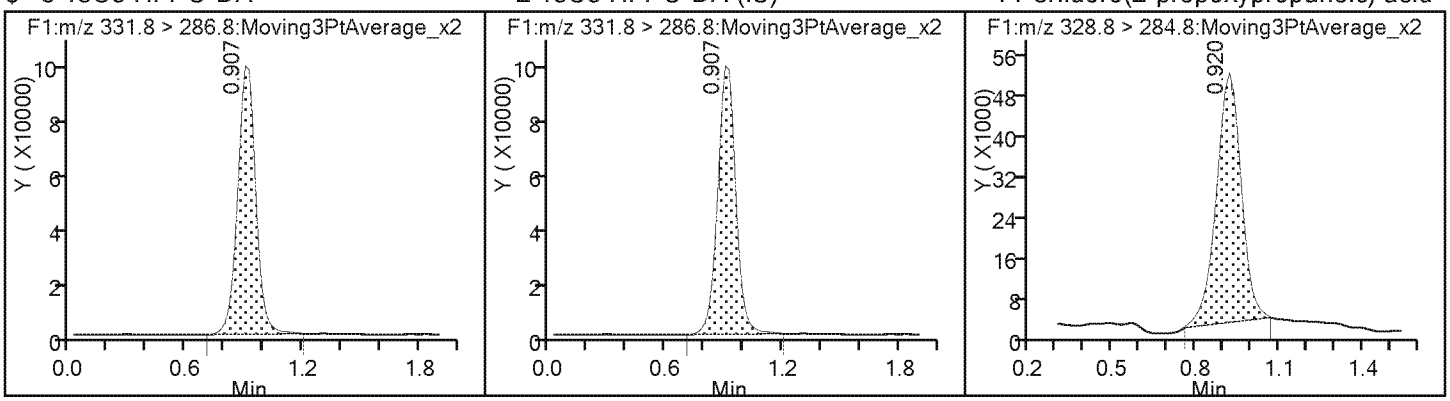
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	571004	7.65	1019	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		571004	10.0	1019	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	294370	4.81	38.2	

Report Date: 13-Feb-2018 07:56:54 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12143.d				
Injection Date:	12-Feb-2018 17:59:40	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-26-A	Lab Sample ID:	280-106036-26		
Client ID:	FAY-D-6711CHKFT-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	22	Worklist Smp#:	110
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12143.d				
Lims ID:	280-106036-A-26-A				
Client ID:	FAY-D-6711CHKFT-W1-1-020118				
Sample Type:	Client				
Inject. Date:	12-Feb-2018 17:59:40	ALS Bottle#:	22	Worklist Smp#:	110
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-26-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:49	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.65	76.48

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6416CHKFT-W1-1-020118 | Lab Sample ID: 280-106036-27

Matrix: Water | Lab File ID: hfpo718B14012.d

Analysis Method: 8321A | Date Collected: 02/01/2018 12:04

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 296.5(mL) | Date Analyzed: 02/14/2018 08:16

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.052		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	78		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14012.d
Lims ID: 280-106036-D-27-A
Client ID: FAY-D-6916CHKFT-W1-1-020118
Sample Type: Client
Inject. Date: 14-Feb-2018 08:16:59 ALS Bottle#: 19 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-D-27-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:39

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	585048	7.84	1802	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		585048	10.0	1802	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	194936	3.10	61.4	

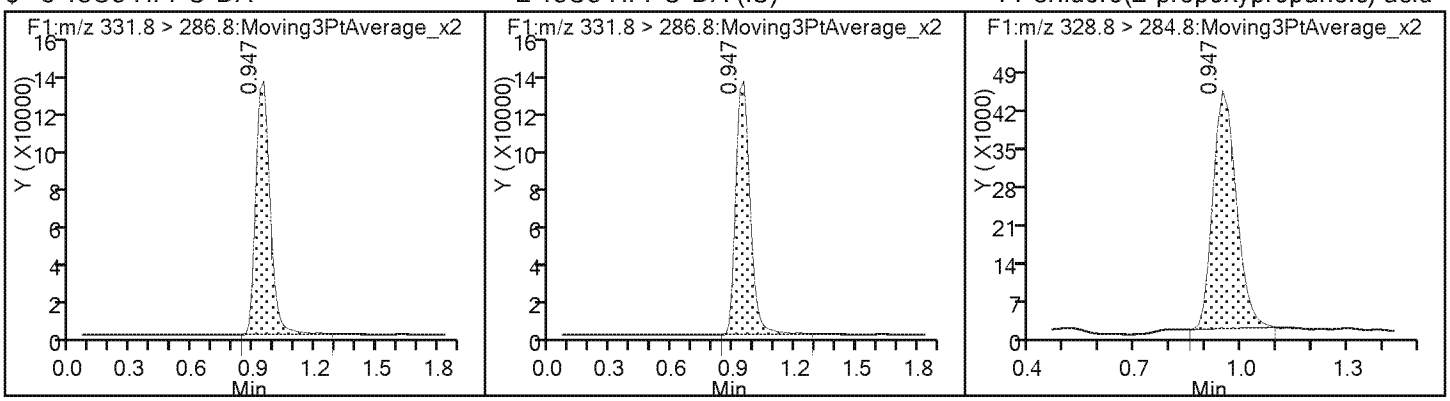
Report Date: 15-Feb-2018 06:58:48 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14012.d

Injection Date:	14-Feb-2018 08:16:59	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-D-27-A	Lab Sample ID:	280-106036-27		
Client ID:	FAY-D-6916CHKFT-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	19	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14012.d				
Lims ID:	280-106036-D-27-A				
Client ID:	FAY-D-6916CHKFT-W1-1-020118				
Sample Type:	Client				
Inject. Date:	14-Feb-2018 08:16:59	ALS Bottle#:	19	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-D-27-A				
Misc. Info.:	HFPO18B14				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	15-Feb-2018 06:58:45	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK001				

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.84	78.36

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6591BUTLE-W1-1-020118 | Lab Sample ID: 280-106036-28

Matrix: Water | Lab File ID: hfpo718B14013.d

Analysis Method: 8321A | Date Collected: 02/01/2018 14:38

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 293.3(mL) | Date Analyzed: 02/14/2018 08:20

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.016		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	77		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14013.d
Lims ID: 280-106036-A-28-A
Client ID: FAY-D-6591BUTLE-W1-1-020118
Sample Type: Client
Inject. Date: 14-Feb-2018 08:20:14 ALS Bottle#: 20 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-28-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:41

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	577961	7.74	1108	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		577961	10.0	1108	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	58274	0.9138	15.9	

Report Date: 15-Feb-2018 06:58:48 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14013.d

Injection Date: 14-Feb-2018 08:20:14 Instrument ID: LC_LCMS7

Lims ID: 280-106036-A-28-A Lab Sample ID: 280-106036-28

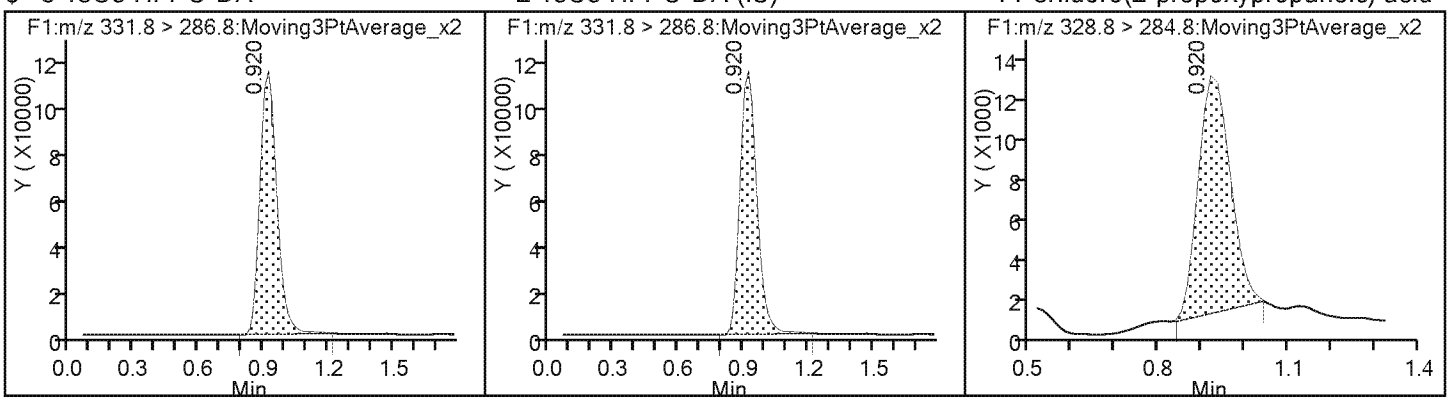
Client ID: FAY-D-6591BUTLE-W1-1-020118

Operator ID: JBH ALS Bottle#: 20 Worklist Smp#: 13

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14013.d				
Lims ID:	280-106036-A-28-A				
Client ID:	FAY-D-6591BUTLE-W1-1-020118				
Sample Type:	Client				
Inject. Date:	14-Feb-2018 08:20:14	ALS Bottle#:	20	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-28-A				
Misc. Info.:	HFPO18B14				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	15-Feb-2018 06:58:45	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK001				

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.74	77.41

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-7149BUTLE-W1-1-020118 | Lab Sample ID: 280-106036-29

Matrix: Water | Lab File ID: hfpo718B14014.d

Analysis Method: 8321A | Date Collected: 02/01/2018 15:03

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 286.2(mL) | Date Analyzed: 02/14/2018 08:23

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.061		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	82		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14014.d
Lims ID: 280-106036-D-29-A
Client ID: FAY-D-7149BUTLE-W1-1-020118
Sample Type: Client
Inject. Date: 14-Feb-2018 08:23:28 ALS Bottle#: 21 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-D-29-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:43

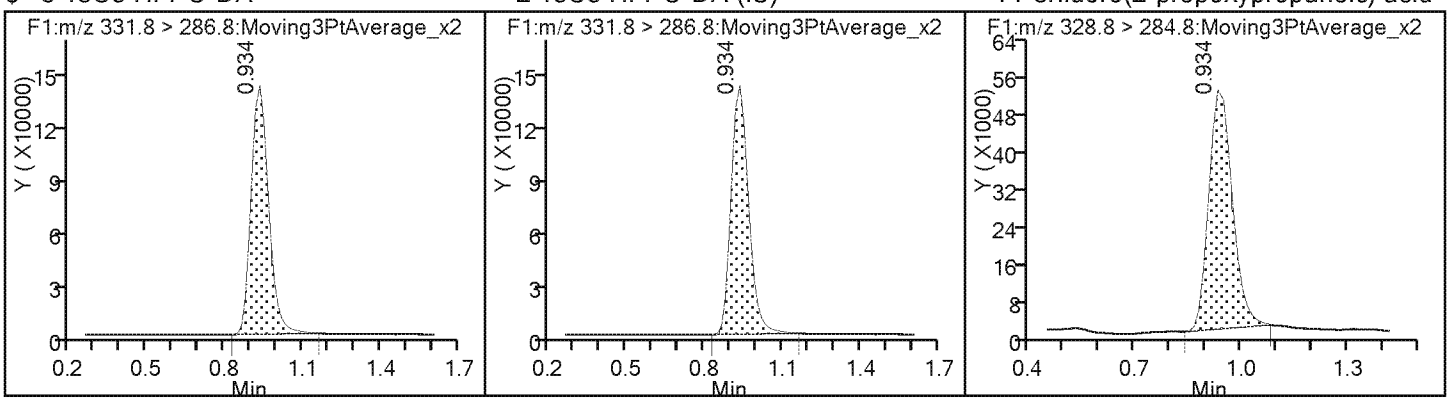
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	609648	8.17	1335	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		609648	10.0	1335	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	228924	3.50	70.2	

Report Date: 15-Feb-2018 06:58:49 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14014.d				
Injection Date:	14-Feb-2018 08:23:28	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-D-29-A	Lab Sample ID:	280-106036-29		
Client ID:	FAY-D-7149BUTLE-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	21	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14014.d				
Lims ID:	280-106036-D-29-A				
Client ID:	FAY-D-7149BUTLE-W1-1-020118				
Sample Type:	Client				
Inject. Date:	14-Feb-2018 08:23:28	ALS Bottle#:	21	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-D-29-A				
Misc. Info.:	HFPO18B14				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	15-Feb-2018 06:58:45	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK001				

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.17	81.66

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-7243BUTLE-W1-1-020118 | Lab Sample ID: 280-106036-30

Matrix: Water | Lab File ID: hfpo718B14015.d

Analysis Method: 8321A | Date Collected: 02/01/2018 17:11

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 287.8(mL) | Date Analyzed: 02/14/2018 08:26

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.089		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	85		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14015.d
Lims ID: 280-106036-A-30-A
Client ID: FAY-D-7243BUTLE-W1-1-020118
Sample Type: Client
Inject. Date: 14-Feb-2018 08:26:43 ALS Bottle#: 22 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-30-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:45

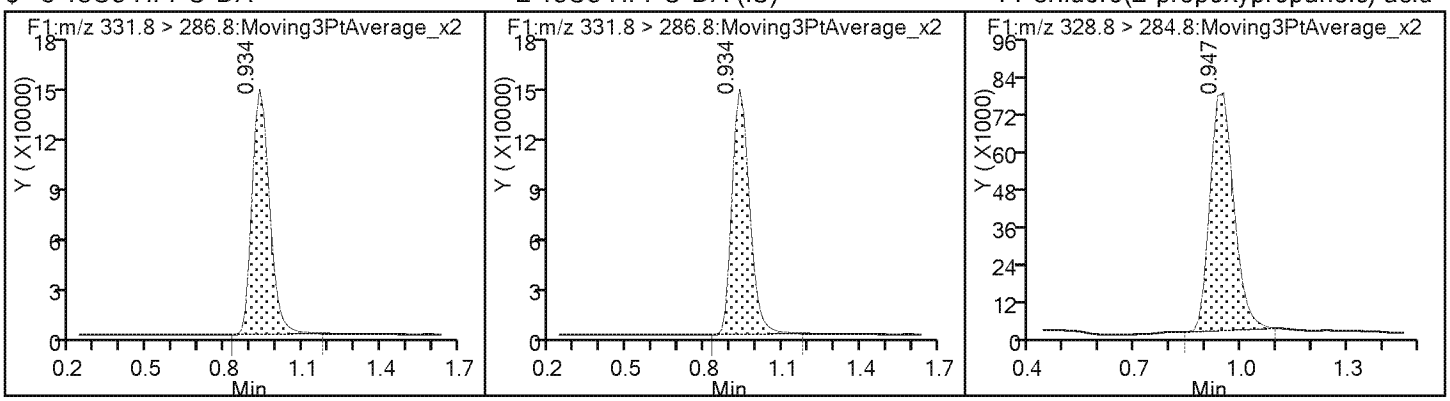
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	636104	8.52	1266	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		636104	10.0	1266	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	347610	5.10	92.4	

Report Date: 15-Feb-2018 06:58:49 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14015.d				
Injection Date:	14-Feb-2018 08:26:43	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-30-A	Lab Sample ID:	280-106036-30		
Client ID:	FAY-D-7243BUTLE-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	22	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14015.d				
Lims ID:	280-106036-A-30-A				
Client ID:	FAY-D-7243BUTLE-W1-1-020118				
Sample Type:	Client				
Inject. Date:	14-Feb-2018 08:26:43	ALS Bottle#:	22	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-30-A				
Misc. Info.:	HFPO18B14				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	15-Feb-2018 06:58:45	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK001				

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.52	85.20

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-5049MATTH-W1-1-020118-D | Lab Sample ID: 280-106036-31

Matrix: Water | Lab File ID: hfpo718B14016.d

Analysis Method: 8321A | Date Collected: 02/01/2018 13:48

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 274.8(mL) | Date Analyzed: 02/14/2018 08:30

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.12		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	75		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14016.d
Lims ID: 280-106036-B-31-A
Client ID: FAY-D-5049MATTH-W1-1-020118-D
Sample Type: Client
Inject. Date: 14-Feb-2018 08:30:01 ALS Bottle#: 23 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-B-31-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:47

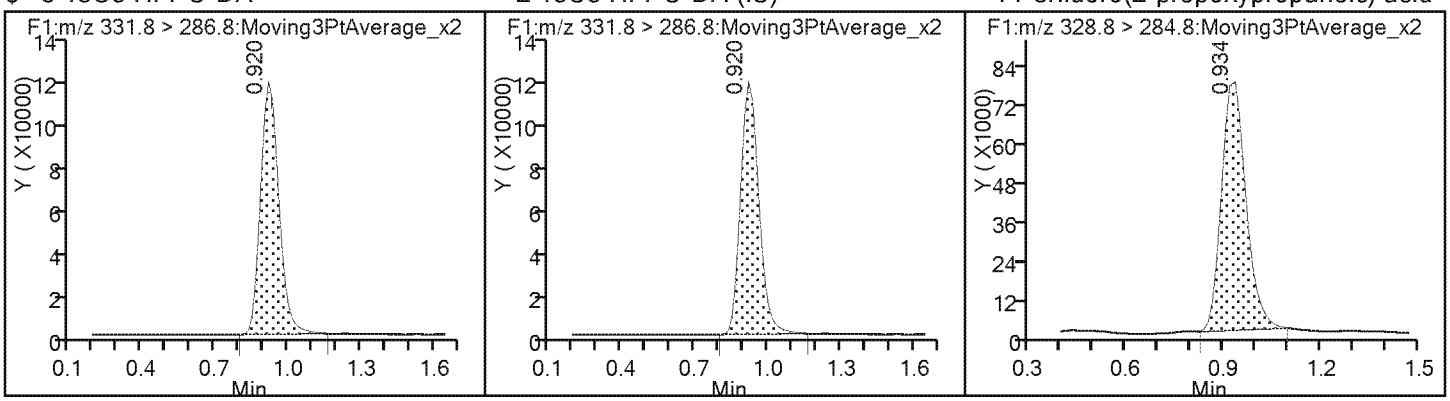
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	562941	7.54	1140	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		562941	10.0	1140	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	391463	6.50	107	

Report Date: 15-Feb-2018 06:58:50 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14016.d				
Injection Date:	14-Feb-2018 08:30:01	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-B-31-A	Lab Sample ID:	280-106036-31		
Client ID:	FAY-D-5049MATTH-W1-1-020118-D				
Operator ID:	JBH	ALS Bottle#:	23	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14016.d
Lims ID: 280-106036-B-31-A
Client ID: FAY-D-5049MATTH-W1-1-020118-D
Sample Type: Client
Inject. Date: 14-Feb-2018 08:30:01 ALS Bottle#: 23 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-B-31-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.54	75.40

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-7609TABOR-W1-1-020118 Lab Sample ID: 280-106036-32

Matrix: Water Lab File ID: hfpo718B14017.d

Analysis Method: 8321A Date Collected: 02/01/2018 14:41

Extraction Method: 3535 Date Extracted: 02/13/2018 11:30

Sample wt/vol: 277.2(mL) Date Analyzed: 02/14/2018 08:33

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Synergi Hydro ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.15		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	71		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14017.d
Lims ID: 280-106036-B-32-A
Client ID: FAY-D-7609TABOR-W1-1-020118
Sample Type: Client
Inject. Date: 14-Feb-2018 08:33:16 ALS Bottle#: 24 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-B-32-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:49

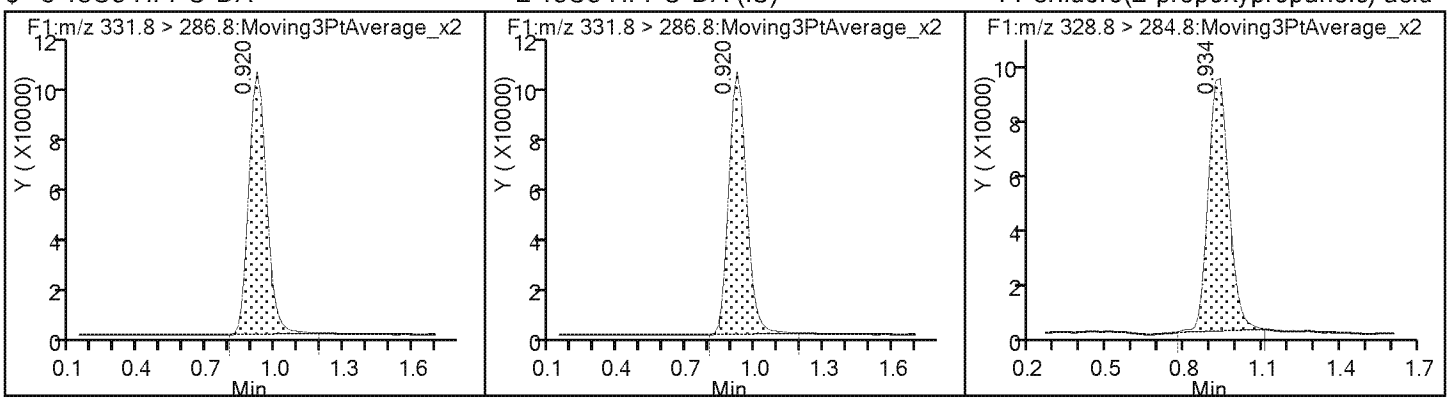
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	528296	7.08	955	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		528296	10.0	955	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	476566	8.45	147	

Report Date: 15-Feb-2018 06:58:50 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14017.d				
Injection Date:	14-Feb-2018 08:33:16	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-B-32-A	Lab Sample ID:	280-106036-32		
Client ID:	FAY-D-7609TABOR-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	24	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14017.d				
Lims ID:	280-106036-B-32-A				
Client ID:	FAY-D-7609TABOR-W1-1-020118				
Sample Type:	Client				
Inject. Date:	14-Feb-2018 08:33:16	ALS Bottle#:	24	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-B-32-A				
Misc. Info.:	HFPO18B14				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	15-Feb-2018 06:58:45	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK001				

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.08	70.76

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-7741TABOR-W1-1-020118 | Lab Sample ID: 280-106036-33

Matrix: Water | Lab File ID: hfpo718B14019.d

Analysis Method: 8321A | Date Collected: 02/01/2018 15:08

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 272.3(mL) | Date Analyzed: 02/14/2018 08:39

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.10		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	81		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14019.d
Lims ID: 280-106036-C-33-A
Client ID: FAY-D-7741TABOR-W1-1-020118
Sample Type: Client
Inject. Date: 14-Feb-2018 08:39:45 ALS Bottle#: 25 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-C-33-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:50 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:36

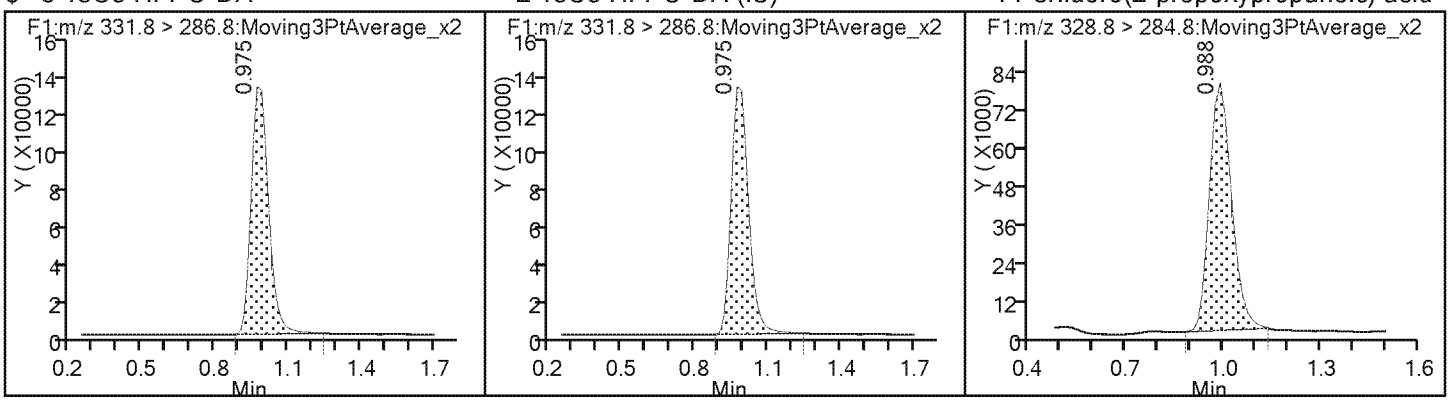
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.975	1.045	-0.070	1.000	607823	8.14	1448	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.975	1.045	-0.070		607823	10.0	1448	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.988	1.056	-0.068	1.000	355617	5.47	72.8	

Report Date: 15-Feb-2018 06:58:51 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14019.d				
Injection Date:	14-Feb-2018 08:39:45	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-C-33-A	Lab Sample ID:	280-106036-33		
Client ID:	FAY-D-7741TABOR-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	25	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14019.d				
Lims ID:	280-106036-C-33-A				
Client ID:	FAY-D-7741TABOR-W1-1-020118				
Sample Type:	Client				
Inject. Date:	14-Feb-2018 08:39:45	ALS Bottle#:	25	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-C-33-A				
Misc. Info.:	HFPO18B14				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	15-Feb-2018 06:58:50	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK001				

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.14	81.41

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-FB-020118-B | Lab Sample ID: 280-106036-34

Matrix: Water | Lab File ID: hfpo718B14020.d

Analysis Method: 8321A | Date Collected: 02/01/2018 17:00

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 288.8(mL) | Date Analyzed: 02/14/2018 08:43

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	82		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14020.d				
Lims ID:	280-106036-A-34-A				
Client ID:	FAY-D-FB-020118-B				
Sample Type:	Client				
Inject. Date:	14-Feb-2018 08:43:00	ALS Bottle#:	26	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-34-A				
Misc. Info.:	HFPO18B14				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	15-Feb-2018 06:58:50	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK001				

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:38

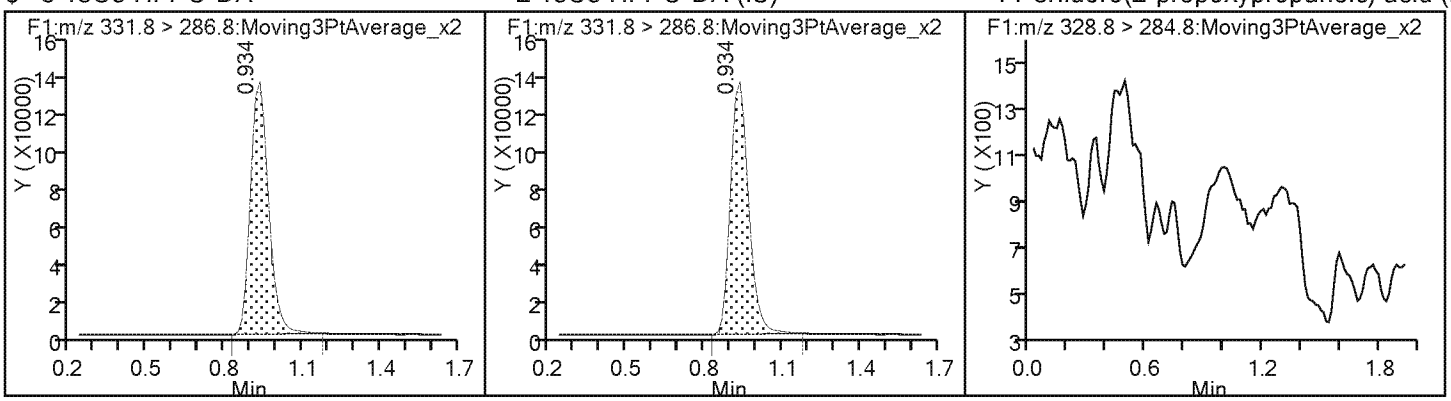
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	615420	8.24	1447	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		615420	10.0	1447	

Report Date: 15-Feb-2018 06:58:52 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14020.d				
Injection Date:	14-Feb-2018 08:43:00	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-34-A	Lab Sample ID:	280-106036-34		
Client ID:	FAY-D-FB-020118-B				
Operator ID:	JBH	ALS Bottle#:	26	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14020.d
Lims ID: 280-106036-A-34-A
Client ID: FAY-D-FB-020118-B
Sample Type: Client
Inject. Date: 14-Feb-2018 08:43:00 ALS Bottle#: 26 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-34-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:50 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.24	82.43

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-47MAUDI-W1-1-020118 | Lab Sample ID: 280-106036-35

Matrix: Water | Lab File ID: hfpo718B14021.d

Analysis Method: 8321A | Date Collected: 02/01/2018 09:00

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 271.7(mL) | Date Analyzed: 02/14/2018 08:46

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.016		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	82		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14021.d
Lims ID: 280-106036-A-35-A
Client ID: FAY-D-47MAUDI-W1-1-020118
Sample Type: Client
Inject. Date: 14-Feb-2018 08:46:16 ALS Bottle#: 27 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-35-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:50 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:40

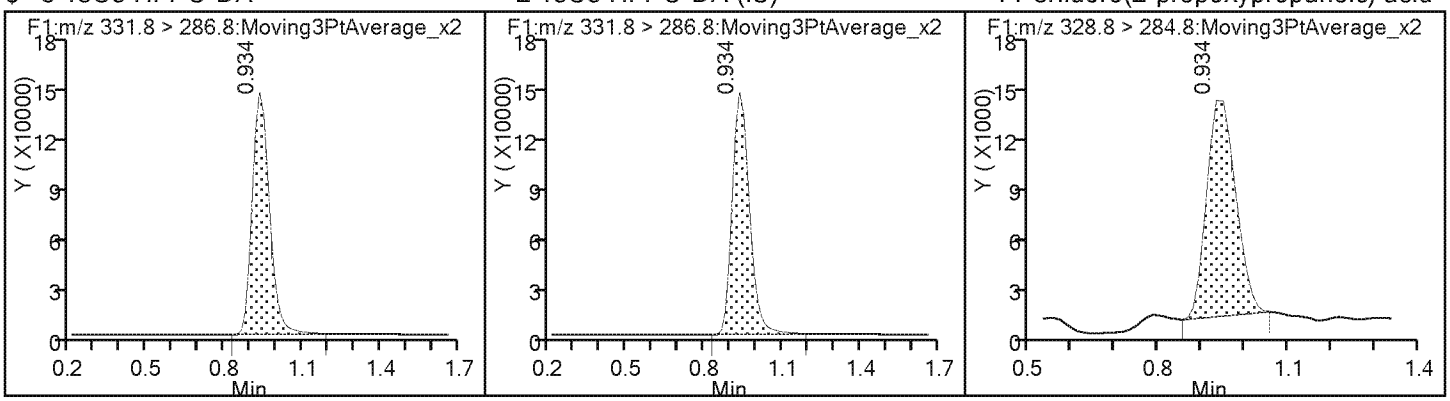
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	611690	8.19	1546	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		611690	10.0	1546	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	59198	0.8758	19.5	

Report Date: 15-Feb-2018 06:58:52 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14021.d				
Injection Date:	14-Feb-2018 08:46:16	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-35-A	Lab Sample ID:	280-106036-35		
Client ID:	FAY-D-47MAUDI-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	27	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14021.d				
Lims ID:	280-106036-A-35-A				
Client ID:	FAY-D-47MAUDI-W1-1-020118				
Sample Type:	Client				
Inject. Date:	14-Feb-2018 08:46:16	ALS Bottle#:	27	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-35-A				
Misc. Info.:	HFPO18B14				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	15-Feb-2018 06:58:50	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK001				

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.19	81.93

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-47MAUDI-W1-2-020118 | Lab Sample ID: 280-106036-36

Matrix: Water | Lab File ID: hfpo718B14022.d

Analysis Method: 8321A | Date Collected: 02/01/2018 09:05

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 276.5(mL) | Date Analyzed: 02/14/2018 08:49

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.015		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	81		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14022.d
Lims ID: 280-106036-C-36-A
Client ID: FAY-D-47MAUDI-W1-2-020118
Sample Type: Client
Inject. Date: 14-Feb-2018 08:49:31 ALS Bottle#: 28 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-C-36-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:50 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:42

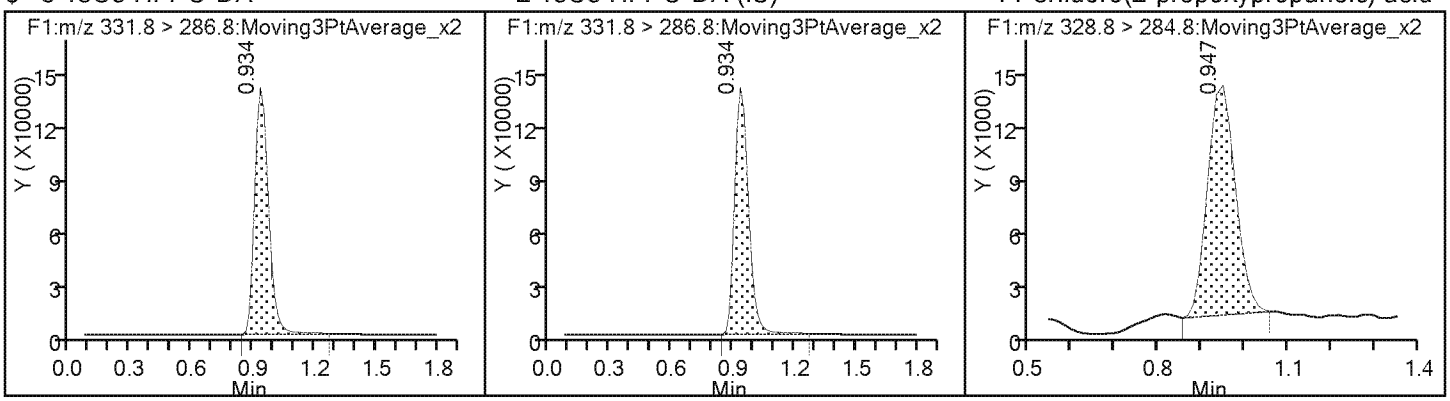
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	605511	8.11	1753	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		605511	10.0	1753	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	57094	0.8524	17.4	

Report Date: 15-Feb-2018 06:58:53 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14022.d				
Injection Date:	14-Feb-2018 08:49:31	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-C-36-A	Lab Sample ID:	280-106036-36		
Client ID:	FAY-D-47MAUDI-W1-2-020118				
Operator ID:	JBH	ALS Bottle#:	28	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14022.d
Lims ID: 280-106036-C-36-A
Client ID: FAY-D-47MAUDI-W1-2-020118
Sample Type: Client
Inject. Date: 14-Feb-2018 08:49:31 ALS Bottle#: 28 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-C-36-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:50 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.11	81.10

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-1123NC20H-W1-1-020118 | Lab Sample ID: 280-106036-37

Matrix: Water | Lab File ID: hfpo718B14023.d

Analysis Method: 8321A | Date Collected: 02/01/2018 09:43

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 281.3(mL) | Date Analyzed: 02/14/2018 08:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.018		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	75		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14023.d
Lims ID: 280-106036-A-37-A
Client ID: FAY-D-1123NC20H-W1-1-020118
Sample Type: Client
Inject. Date: 14-Feb-2018 08:52:47 ALS Bottle#: 29 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-37-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:50 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:44

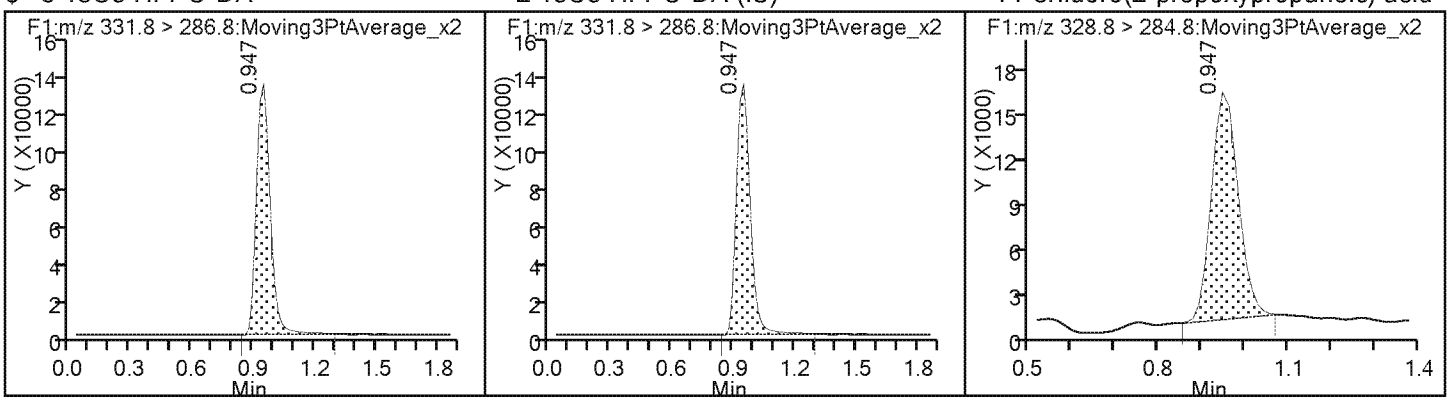
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	561244	7.52	1925	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		561244	10.0	1925	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	63350	1.03	22.8	

Report Date: 15-Feb-2018 06:58:53 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14023.d				
Injection Date:	14-Feb-2018 08:52:47	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-37-A	Lab Sample ID:	280-106036-37		
Client ID:	FAY-D-1123NC20H-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	29	Worklist Smp#:	23
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14023.d
Lims ID: 280-106036-A-37-A
Client ID: FAY-D-1123NC20H-W1-1-020118
Sample Type: Client
Inject. Date: 14-Feb-2018 08:52:47 ALS Bottle#: 29 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-37-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:50 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.52	75.17

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-3322DANDE-W1-1-020118 | Lab Sample ID: 280-106036-38

Matrix: Water | Lab File ID: hfpo718B14024.d

Analysis Method: 8321A | Date Collected: 02/01/2018 16:30

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 288.9(mL) | Date Analyzed: 02/14/2018 08:56

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	82		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14024.d
Lims ID: 280-106036-A-38-A
Client ID: FAY-D-3322DANDE-W1-1-020118
Sample Type: Client
Inject. Date: 14-Feb-2018 08:56:03 ALS Bottle#: 30 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-A-38-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:50 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:46

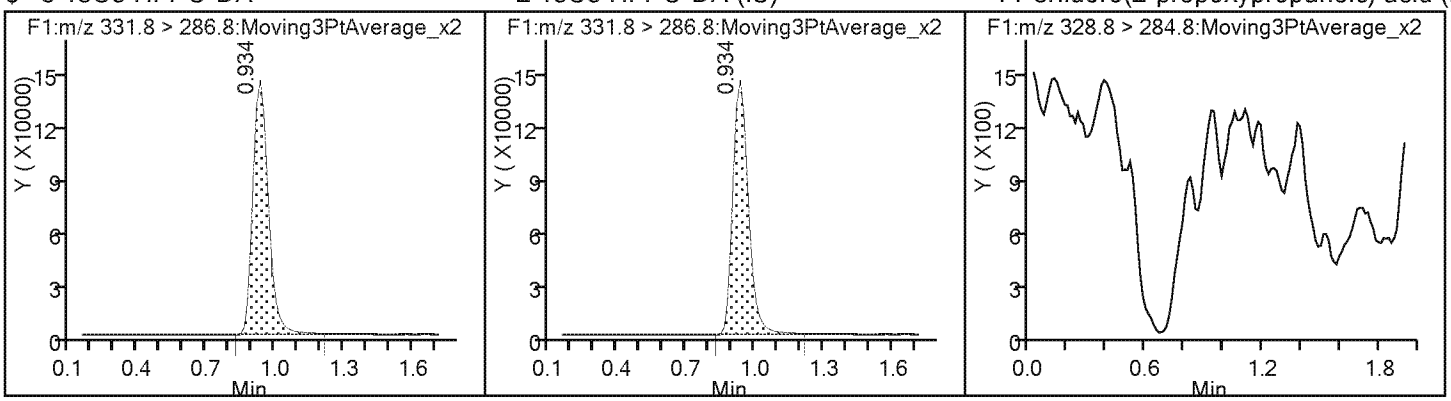
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	611136	8.19	1537	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		611136	10.0	1537	

Report Date: 15-Feb-2018 06:58:54 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14024.d				
Injection Date:	14-Feb-2018 08:56:03	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-A-38-A	Lab Sample ID:	280-106036-38		
Client ID:	FAY-D-3322DANDE-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	30	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14024.d				
Lims ID:	280-106036-A-38-A				
Client ID:	FAY-D-3322DANDE-W1-1-020118				
Sample Type:	Client				
Inject. Date:	14-Feb-2018 08:56:03	ALS Bottle#:	30	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-A-38-A				
Misc. Info.:	HFPO18B14				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	15-Feb-2018 06:58:50	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK001				

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.19	81.86

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-3322DANDE-W1-1-020118D | Lab Sample ID: 280-106036-39

Matrix: Water | Lab File ID: hfpo718B13087.d

Analysis Method: 8321A | Date Collected: 02/01/2018 16:30

Extraction Method: 3535 | Date Extracted: 02/12/2018 08:23

Sample wt/vol: 251.2(mL) | Date Analyzed: 02/13/2018 12:39

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404879 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	113		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13087.d				
Lims ID:	280-106036-C-39-A				
Client ID:	FAY-D-3322DANDE-W1-1-020118D				
Sample Type:	Client				
Inject. Date:	13-Feb-2018 12:39:17	ALS Bottle#:	7	Worklist Smp#:	66
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-C-39-A				
Misc. Info.:	HFPO18B13				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	14-Feb-2018 07:00:30	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK006				

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:28

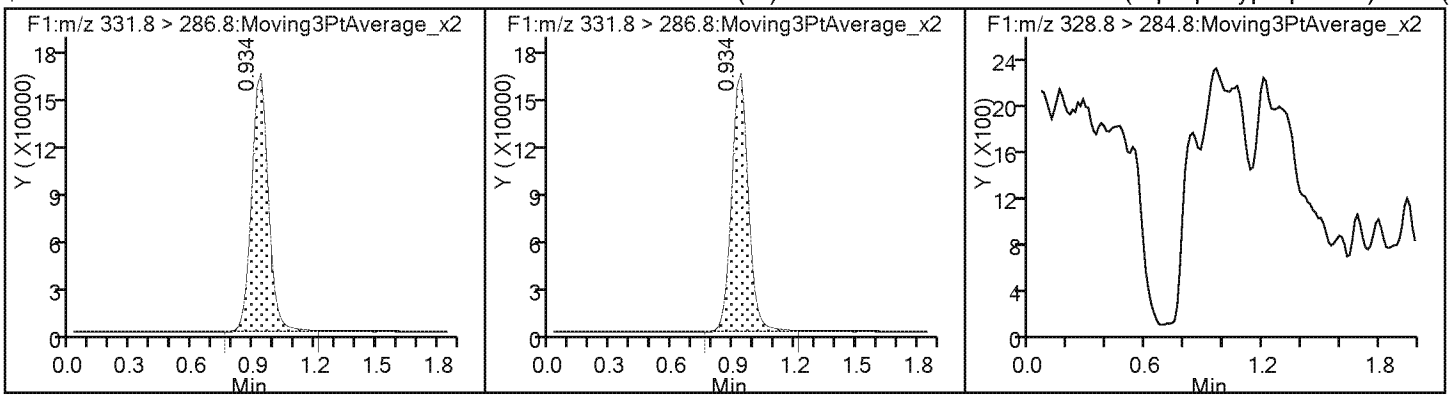
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	841551	11.3	1427	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		841551	10.0	1427	

Report Date: 14-Feb-2018 07:00:36 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13087.d				
Injection Date:	13-Feb-2018 12:39:17	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-C-39-A	Lab Sample ID:	280-106036-39		
Client ID:	FAY-D-3322DANDE-W1-1-020118D				
Operator ID:	JBH	ALS Bottle#:	7	Worklist Smp#:	66
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13087.d				
Lims ID:	280-106036-C-39-A				
Client ID:	FAY-D-3322DANDE-W1-1-020118D				
Sample Type:	Client				
Inject. Date:	13-Feb-2018 12:39:17	ALS Bottle#:	7	Worklist Smp#:	66
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-C-39-A				
Misc. Info.:	HFPO18B13				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	14-Feb-2018 07:00:30	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK006				

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	11.3	112.72

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-4057SPNSH-W1-2-020118 | Lab Sample ID: 280-106036-40

Matrix: Water | Lab File ID: hfpo718B13088.d

Analysis Method: 8321A | Date Collected: 02/01/2018 14:35

Extraction Method: 3535 | Date Extracted: 02/12/2018 08:23

Sample wt/vol: 251.9(mL) | Date Analyzed: 02/13/2018 12:42

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404879 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.022		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	107		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13088.d
Lims ID: 280-106036-D-40-A
Client ID: FAY-D-4059SPNSH-W1-2-020118
Sample Type: Client
Inject. Date: 13-Feb-2018 12:42:32 ALS Bottle#: 8 Worklist Smp#: 67
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-D-40-A
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:31

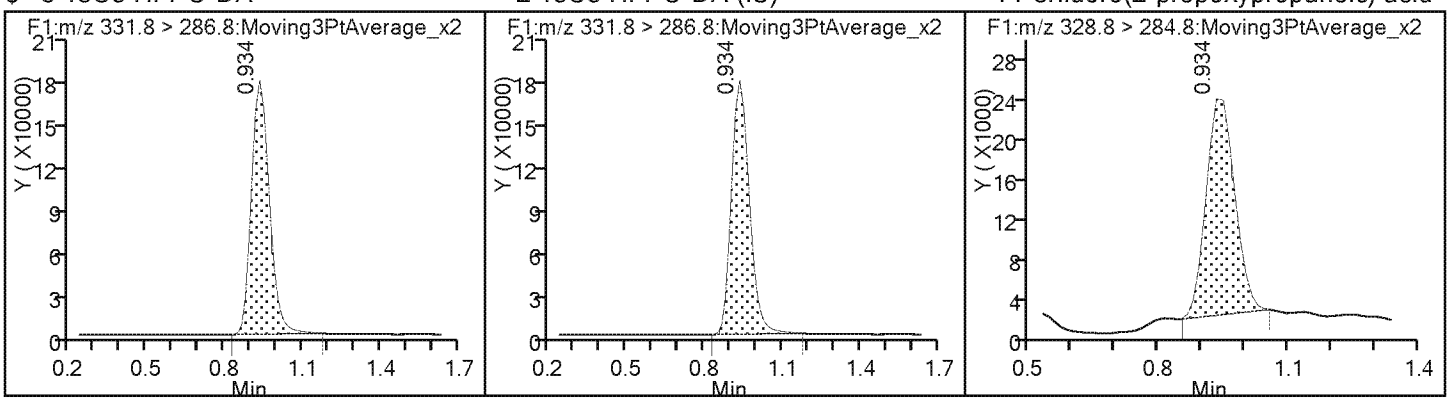
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	799188	10.7	1351	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		799188	10.0	1351	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	95075	1.08	17.5	

Report Date: 14-Feb-2018 07:00:36 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13088.d				
Injection Date:	13-Feb-2018 12:42:32	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-D-40-A	Lab Sample ID:	280-106036-40		
Client ID:	FAY-D-4059SPNSH-W1-2-020118				
Operator ID:	JBH	ALS Bottle#:	8	Worklist Smp#:	67
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13088.d				
Lims ID:	280-106036-D-40-A				
Client ID:	FAY-D-4059SPNSH-W1-2-020118				
Sample Type:	Client				
Inject. Date:	13-Feb-2018 12:42:32	ALS Bottle#:	8	Worklist Smp#:	67
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-D-40-A				
Misc. Info.:	HFPO18B13				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	14-Feb-2018 07:00:30	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK006				

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.7	107.04

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-5085MRSHR-W1-1-020118 | Lab Sample ID: 280-106036-41

Matrix: Water | Lab File ID: hfpo718B13089.d

Analysis Method: 8321A | Date Collected: 02/01/2018 17:10

Extraction Method: 3535 | Date Extracted: 02/12/2018 08:23

Sample wt/vol: 250.9(mL) | Date Analyzed: 02/13/2018 12:45

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404879 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	118		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13089.d
Lims ID: 280-106036-D-41-A
Client ID: FAY-D-5085MRSHR-W1-1-020118
Sample Type: Client
Inject. Date: 13-Feb-2018 12:45:46 ALS Bottle#: 9 Worklist Smp#: 68
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-D-41-A
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:33

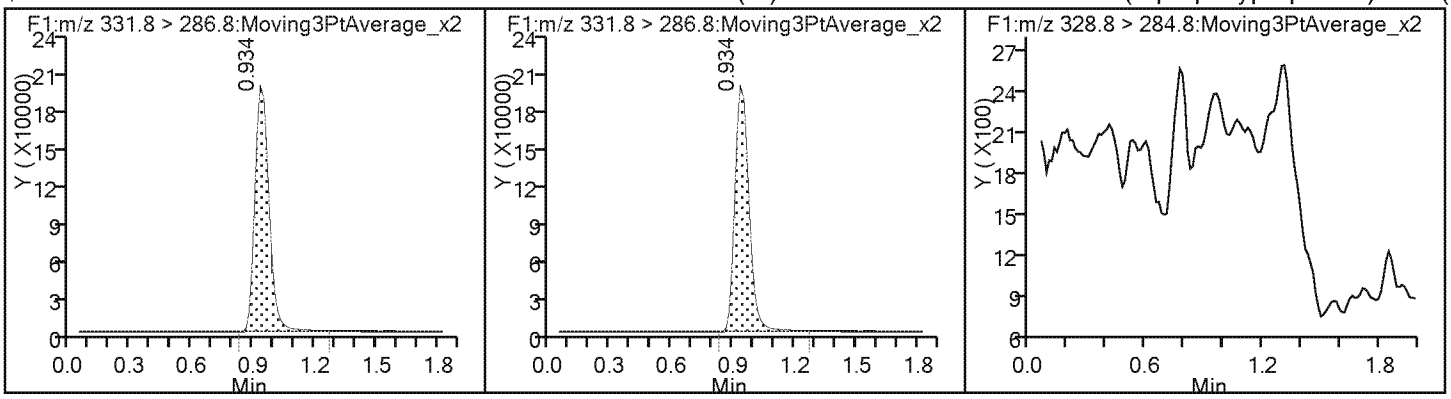
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	878285	11.8	1676	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		878285	10.0	1676	

Report Date: 14-Feb-2018 07:00:37 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13089.d				
Injection Date:	13-Feb-2018 12:45:46	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-D-41-A	Lab Sample ID:	280-106036-41		
Client ID:	FAY-D-5085MRSHR-W1-1-020118				
Operator ID:	JBH	ALS Bottle#:	9	Worklist Smp#:	68
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13089.d				
Lims ID:	280-106036-D-41-A				
Client ID:	FAY-D-5085MRSHR-W1-1-020118				
Sample Type:	Client				
Inject. Date:	13-Feb-2018 12:45:46	ALS Bottle#:	9	Worklist Smp#:	68
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-D-41-A				
Misc. Info.:	HFPO18B13				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	14-Feb-2018 07:00:30	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK006				

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	11.8	117.64

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-FB-020118 | Lab Sample ID: 280-106036-42

Matrix: Water | Lab File ID: hfpo718B13090.d

Analysis Method: 8321A | Date Collected: 02/01/2018 07:55

Extraction Method: 3535 | Date Extracted: 02/12/2018 08:23

Sample wt/vol: 248.5(mL) | Date Analyzed: 02/13/2018 12:49

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404879 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	114		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13090.d
Lims ID: 280-106036-C-42-A
Client ID: FAY-D-FB-020118
Sample Type: Client
Inject. Date: 13-Feb-2018 12:49:01 ALS Bottle#: 10 Worklist Smp#: 69
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-C-42-A
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:35

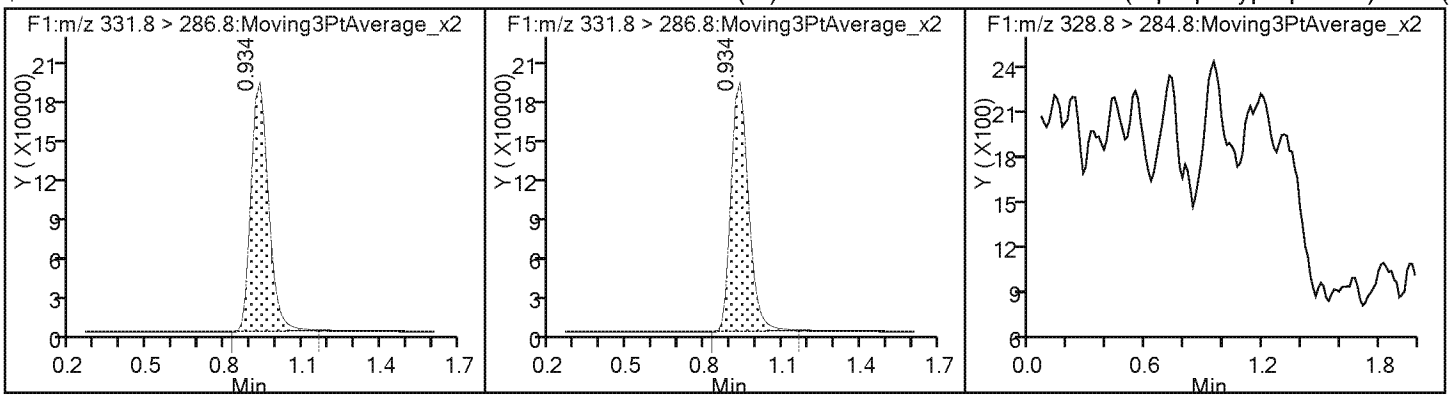
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	848239	11.4	1342	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		848239	10.0	1342	

Report Date: 14-Feb-2018 07:00:39 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13090.d				
Injection Date:	13-Feb-2018 12:49:01	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-C-42-A	Lab Sample ID:	280-106036-42		
Client ID:	FAY-D-FB-020118				
Operator ID:	JBH	ALS Bottle#:	10	Worklist Smp#:	69
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13090.d
Lims ID: 280-106036-C-42-A
Client ID: FAY-D-FB-020118
Sample Type: Client
Inject. Date: 13-Feb-2018 12:49:01 ALS Bottle#: 10 Worklist Smp#: 69
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-C-42-A
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	11.4	113.61

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-FB-020118-A | Lab Sample ID: 280-106036-43

Matrix: Water | Lab File ID: hfpo718B13091.d

Analysis Method: 8321A | Date Collected: 02/01/2018 13:00

Extraction Method: 3535 | Date Extracted: 02/12/2018 08:23

Sample wt/vol: 246.8(mL) | Date Analyzed: 02/13/2018 12:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404879 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	111		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13091.d
Lims ID: 280-106036-B-43-A
Client ID: FAY-D-FB-020118-A
Sample Type: Client
Inject. Date: 13-Feb-2018 12:52:16 ALS Bottle#: 11 Worklist Smp#: 70
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-B-43-A
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:36

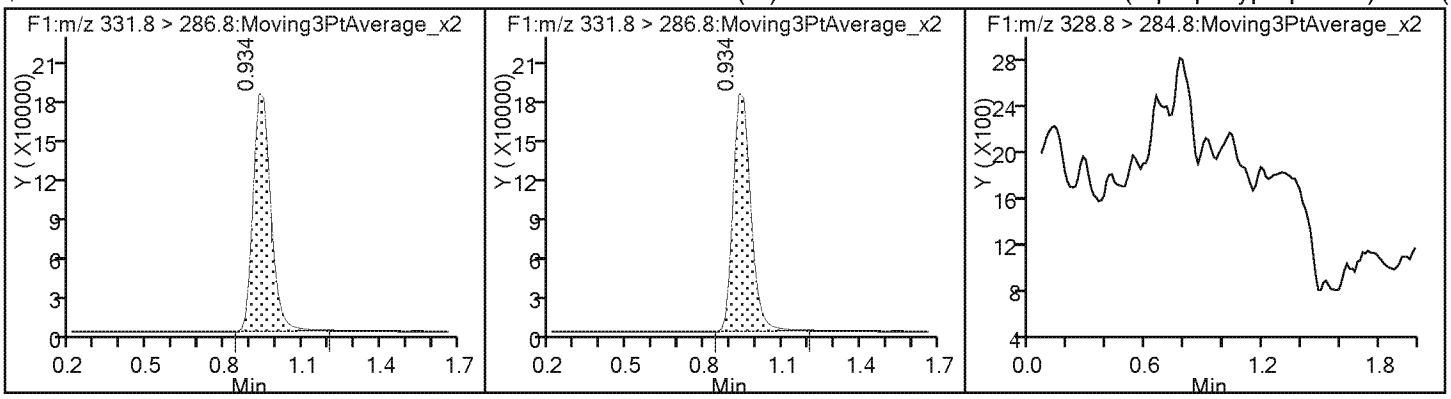
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	830688	11.1	1290	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		830688	10.0	1290	

Report Date: 14-Feb-2018 07:00:39 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13091.d				
Injection Date:	13-Feb-2018 12:52:16	Instrument ID:	LC_LCMS7		
Lims ID:	280-106036-B-43-A	Lab Sample ID:	280-106036-43		
Client ID:	FAY-D-FB-020118-A				
Operator ID:	JBH	ALS Bottle#:	11	Worklist Smp#:	70
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13091.d				
Lims ID:	280-106036-B-43-A				
Client ID:	FAY-D-FB-020118-A				
Sample Type:	Client				
Inject. Date:	13-Feb-2018 12:52:16	ALS Bottle#:	11	Worklist Smp#:	70
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-B-43-A				
Misc. Info.:	HFPO18B13				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	14-Feb-2018 07:00:30	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK006				

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	11.1	111.26

FORM VI
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1 Analy Batch No.: 390728

SDG No.:

Instrument ID: LC_LCMS7 GC Column: Synergi Hyd ID: Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2017 09:35 Calibration End Date: 10/10/2017 09:58 Calibration ID: 30558

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-390728/3	hfpo717J10026.d
Level 2	STD002 280-390728/4	hfpo717J10027.d
Level 3	STD003 280-390728/5	hfpo717J10028.d
Level 4	STD004 280-390728/6	hfpo717J10029.d
Level 5	STD005 280-390728/7	hfpo717J10030.d
Level 6	STD006 280-390728/8	hfpo717J10031.d
Level 7	STD007 280-390728/9	hfpo717J10032.d
Level 8	STD008 280-390728/10	hfpo717J10033.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Perfluoro(2-propoxypropanoic) acid	0.893	0.880	0.880	0.880	0.893	0.880	0.880	0.893			0.385 - 1.385	0.885
13C3 HFPO-DA	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880			0.380 - 1.380	0.880

FORM VI
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-106036-1 Analy Batch No.: 390728

SDG No.:

Instrument ID: LC_LCMS7 GC Column: Synergi Hyd ID: Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2017 09:35 Calibration End Date: 10/10/2017 09:58 Calibration ID: 30558

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-390728/3	hfpo717J10026.d
Level 2	STD002 280-390728/4	hfpo717J10027.d
Level 3	STD003 280-390728/5	hfpo717J10028.d
Level 4	STD004 280-390728/6	hfpo717J10029.d
Level 5	STD005 280-390728/7	hfpo717J10030.d
Level 6	STD006 280-390728/8	hfpo717J10031.d
Level 7	STD007 280-390728/9	hfpo717J10032.d
Level 8	STD008 280-390728/10	hfpo717J10033.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
13C3 HFPO-DA	73075 74460	74523 73194	75043 72919	71803 70142	Ave		73144.6750				2.2		30.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
LCMS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-106036-1 Analy Batch No.: 390728

SDG No.:

Instrument ID: LC_LCMS7 GC Column: Synergi Hyd ID: Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2017 09:35 Calibration End Date: 10/10/2017 09:58 Calibration ID: 30558

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Perfluoro(2-propoxypropanoic) acid	1.6980 1.0102	1.7128 0.9824	1.1896 1.0419	1.1637	1.0154	Lin1	0.2185	1.0121							0.9980		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-106036-1 Analy Batch No.: 390728

SDG No.:

Instrument ID: LC_LCMS7 GC Column: Synergi Hyd ID: Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2017 09:35 Calibration End Date: 10/10/2017 09:58 Calibration ID: 30558

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-390728/3	hfpo717J10026.d
Level 2	STD002 280-390728/4	hfpo717J10027.d
Level 3	STD003 280-390728/5	hfpo717J10028.d
Level 4	STD004 280-390728/6	hfpo717J10029.d
Level 5	STD005 280-390728/7	hfpo717J10030.d
Level 6	STD006 280-390728/8	hfpo717J10031.d
Level 7	STD007 280-390728/9	hfpo717J10032.d
Level 8	STD008 280-390728/10	hfpo717J10033.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
13C3 HFPO-DA	Ave	730749 731935	745227 729188	750427 701420	718028	744600	10.0 10.0	10.0 10.0	10.0 10.0	10.0	10.0

Curve Type Legend:

Ave = Average

FORM VI
LCMS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-106036-1 Analy Batch No.: 390728

SDG No.:

Instrument ID: LC_LCMS7 GC Column: Synergi Hyd ID: Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2017 09:35 Calibration End Date: 10/10/2017 09:58 Calibration ID: 30558

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-390728/3	hfpo717J10026.d
Level 2	STD002 280-390728/4	hfpo717J10027.d
Level 3	STD003 280-390728/5	hfpo717J10028.d
Level 4	STD004 280-390728/6	hfpo717J10029.d
Level 5	STD005 280-390728/7	hfpo717J10030.d
Level 6	STD006 280-390728/8	hfpo717J10031.d
Level 7	STD007 280-390728/9	hfpo717J10032.d
Level 8	STD008 280-390728/10	hfpo717J10033.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Perfluoro(2-propoxypropanoic) acid	13CP ODA	Lin1	31020 739399	63823 1790812	89272 3654104	167109	378047	0.250 10.0	0.500 25.0	1.00 50.0	2.00	5.00

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10026.d
Lims ID: std001
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 10-Oct-2017 09:35:28 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L1
Misc. Info.: HFPO17J10
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 10-Oct-2017 12:51:45 Calib Date: 10-Oct-2017 09:58:07
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10033.d

Column 1 : Det: F1:MRM
Process Host: XAWRK005

First Level Reviewer: meyera Date: 10-Oct-2017 11:50:42

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	0.880	0.0	1.000	730749	10.0	397	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	0.880	0.0		730749	10.0	397	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.893	0.885	0.008	1.000	31020	0.2036	14.1	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

HFPO_CAL-1_00031 Amount Added: 1.00 Units: mL

Report Date: 10-Oct-2017 12:51:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10026.d

Injection Date: 10-Oct-2017 09:35:28 Instrument ID: LC_LCMS7

Lims ID: std001

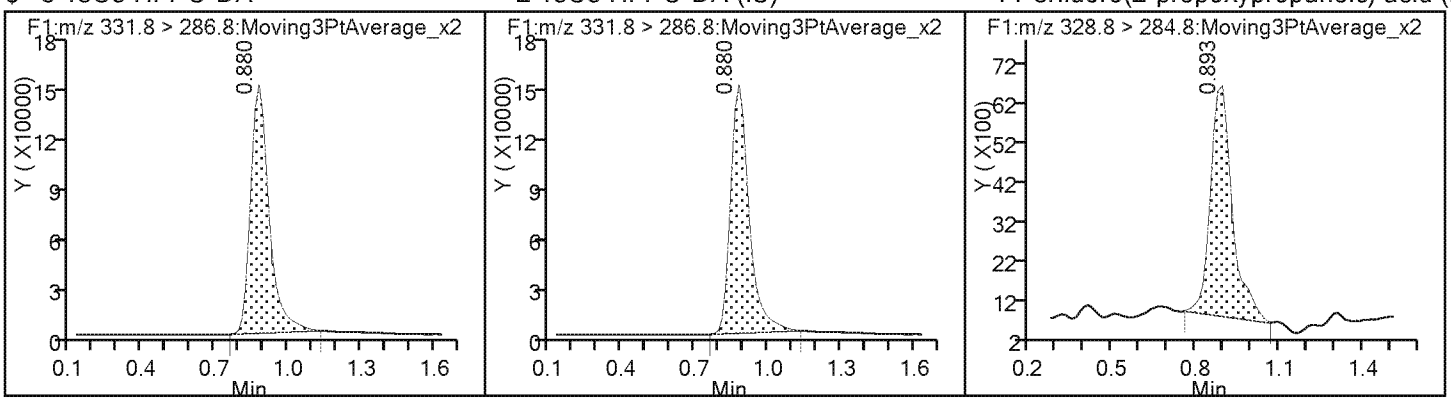
Client ID:

Operator ID: JBH ALS Bottle#: 2 Worklist Smp#: 3

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



Manual Integration/User Assign Peak Report

TestAmerica Denver

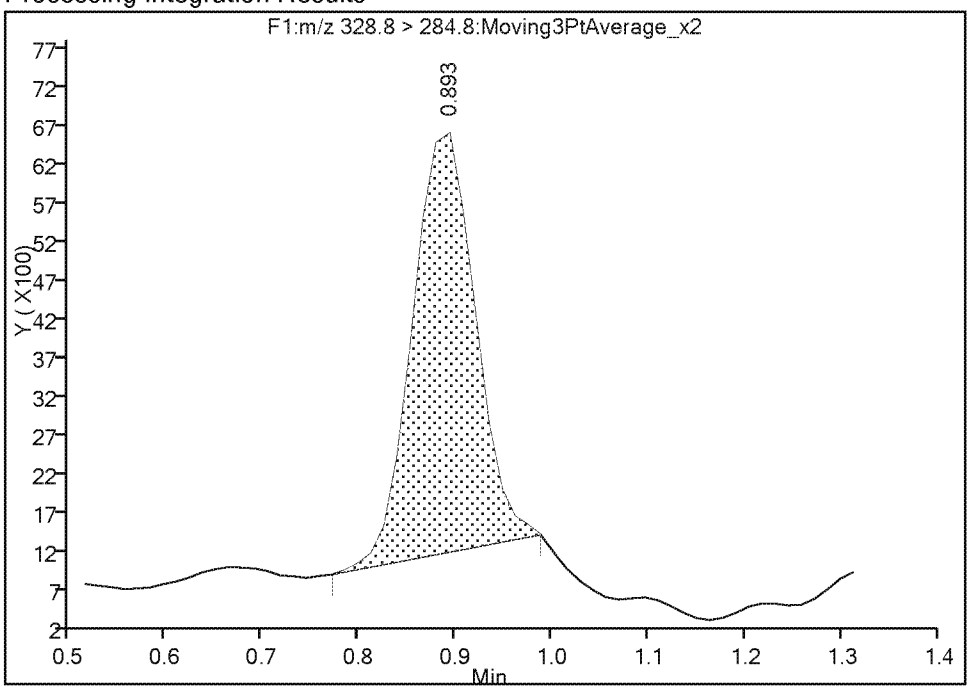
Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10026.d
Injection Date: 10-Oct-2017 09:35:28 Instrument ID: LC_LCMS7
Lims ID: std001
Client ID:
Operator ID: JBH ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: HFPO Limit Group: LC - 8321A_HFPO_Du
Column: Detector F1:MRM

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

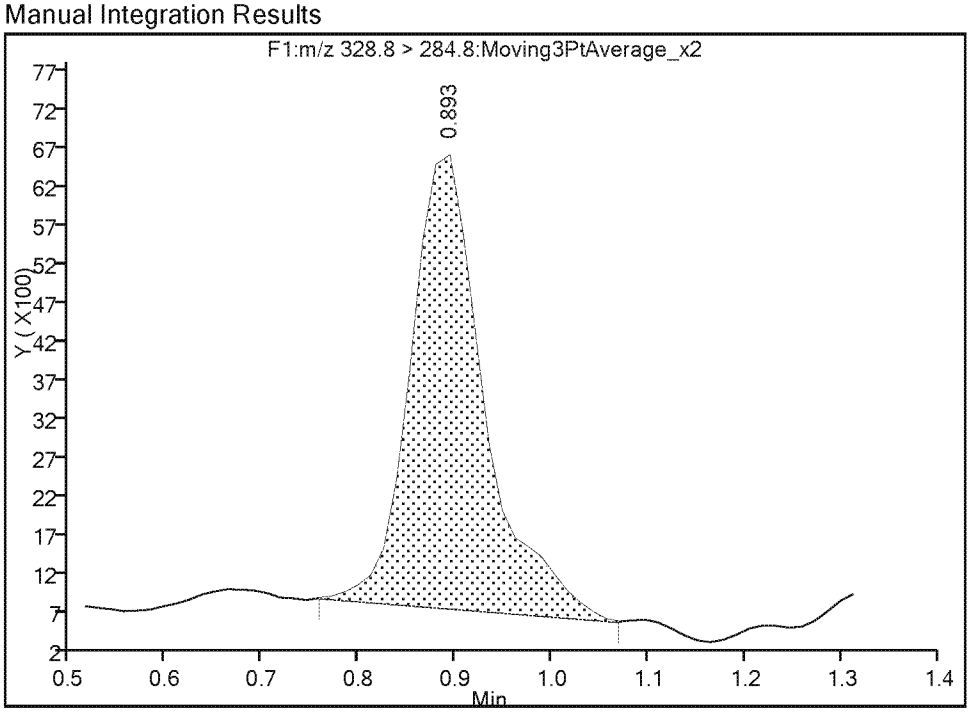
Processing Integration Results

RT: 0.89
Area: 24407
Amount: 0.162386
Amount Units: ug/l



Manual Integration Results

RT: 0.89
Area: 31020
Amount: 0.203553
Amount Units: ug/l



Reviewer: meyera, 10-Oct-2017 11:50:40
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10027.d
Lims ID: std002
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 10-Oct-2017 09:38:42 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L2
Misc. Info.: HFPO17J10
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 10-Oct-2017 12:51:46 Calib Date: 10-Oct-2017 09:58:07
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10033.d

Column 1 : Det: F1:MRM
Process Host: XAWRK005

First Level Reviewer: meyera Date: 10-Oct-2017 11:50:49

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	0.880	0.0		745227	10.0	452	
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	0.880	0.0	1.000	745227	10.2	452	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.880	0.885	-0.005	1.000	63823	0.6303	36.5	

Reagents:

HFPO_CAL-2_00032 Amount Added: 1.00 Units: mL

Report Date: 10-Oct-2017 12:51:46 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10027.d

Injection Date: 10-Oct-2017 09:38:42 Instrument ID: LC_LCMS7

Lims ID: std002

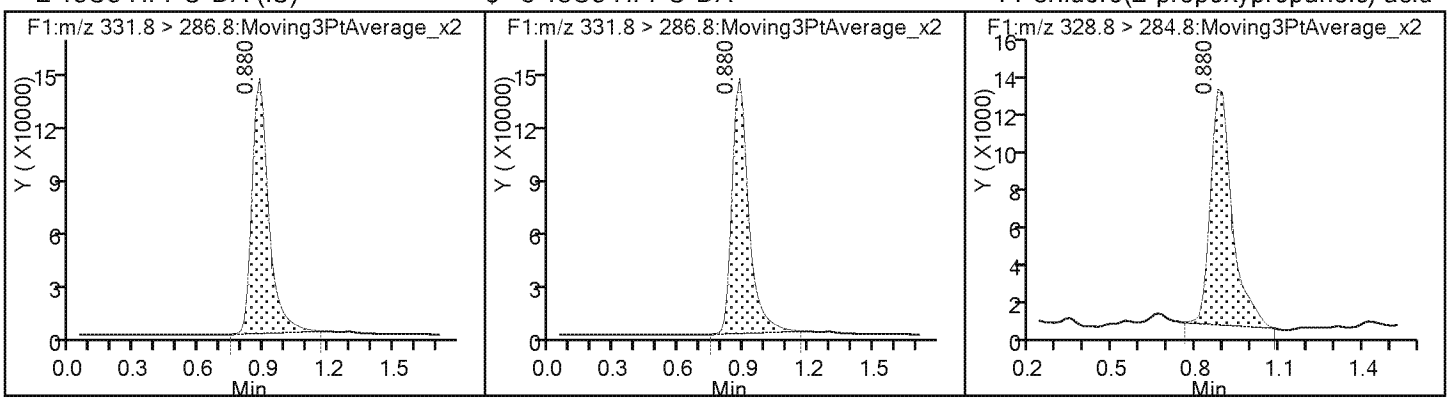
Client ID:

Operator ID: JBH ALS Bottle#: 3 Worklist Smp#: 4

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

* 2 13C3 HFPO-DA (IS) $ 3 13C3 HFPO-DA 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10028.d
Lims ID: std003
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 10-Oct-2017 09:41:56 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L3
Misc. Info.: HFPO17J10
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 10-Oct-2017 12:51:47 Calib Date: 10-Oct-2017 09:58:07
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10033.d

Column 1 : Det: F1:MRM
Process Host: XAWRK005

First Level Reviewer: meyera Date: 10-Oct-2017 11:50:52

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	0.880	0.0	1.000	750427	10.3	417	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	0.880	0.0		750427	10.0	417	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.880	0.885	-0.005	1.000	89272	0.9595	50.3	

Reagents:

HFPO_CAL-3_00031 Amount Added: 1.00 Units: mL

Report Date: 10-Oct-2017 12:51:47 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10028.d

Injection Date: 10-Oct-2017 09:41:56 Instrument ID: LC_LCMS7

Lims ID: std003

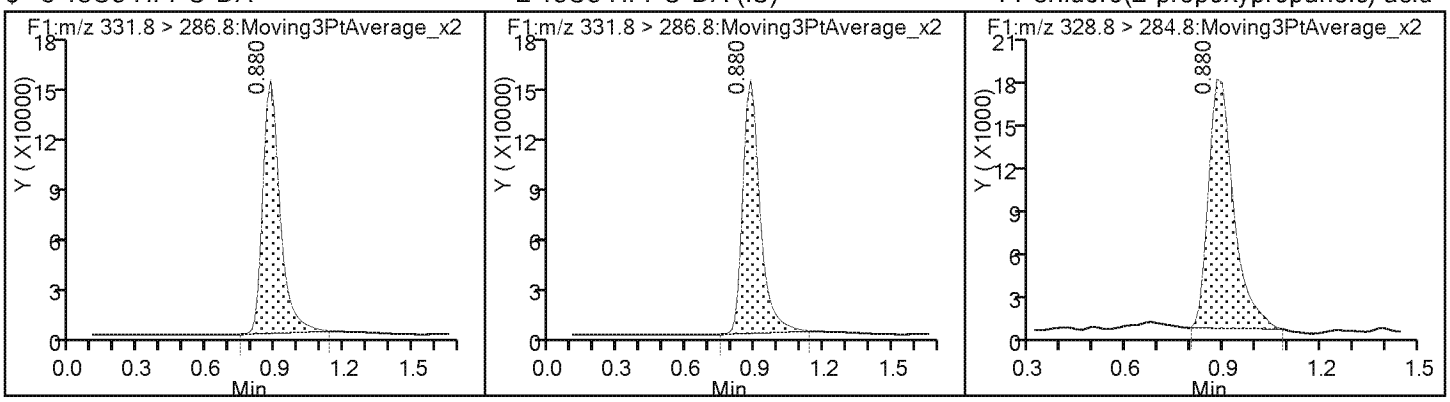
Client ID:

Operator ID: JBH ALS Bottle#: 4 Worklist Smp#: 5

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10029.d
Lims ID: std004
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 10-Oct-2017 09:45:11 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L4
Misc. Info.: HFPO17J10
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 10-Oct-2017 12:51:47 Calib Date: 10-Oct-2017 09:58:07
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10033.d

Column 1 : Det: F1:MRM
Process Host: XAWRK005

First Level Reviewer: meyera Date: 10-Oct-2017 11:50:55

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	0.880	0.0		718028	10.0	438	
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	0.880	0.0	1.000	718028	9.82	438	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.880	0.885	-0.005	1.000	167109	2.08	143	

Reagents:

HFPO_CAL-4_00031 Amount Added: 1.00 Units: mL

Report Date: 10-Oct-2017 12:51:48 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10029.d

Injection Date: 10-Oct-2017 09:45:11 Instrument ID: LC_LCMS7

Lims ID: std004

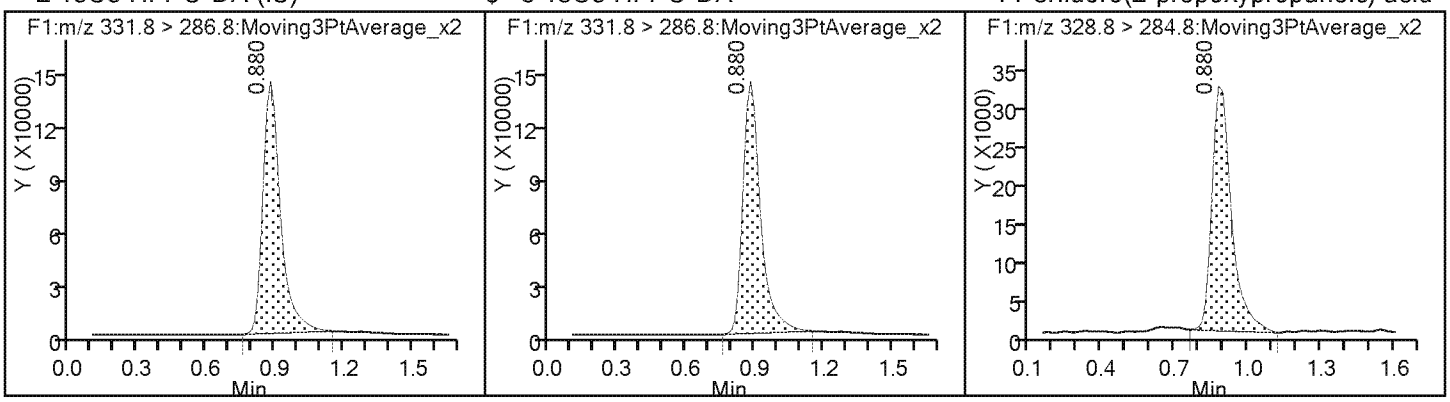
Client ID:

Operator ID: JBH ALS Bottle#: 5 Worklist Smp#: 6

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

* 2 13C3 HFPO-DA (IS) $ 3 13C3 HFPO-DA 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10030.d
Lims ID: std005
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 10-Oct-2017 09:48:25 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L5
Misc. Info.: HFPO17J10
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 10-Oct-2017 12:51:48 Calib Date: 10-Oct-2017 09:58:07
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10033.d

Column 1 : Det: F1:MRM
Process Host: XAWRK005

First Level Reviewer: meyera Date: 10-Oct-2017 11:50:57

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	0.880	0.0	1.000	744600	10.2	433	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	0.880	0.0		744600	10.0	433	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.893	0.885	0.008	1.000	378047	4.80	223	

Reagents:

HFPO_CAL-5_00070 Amount Added: 1.00 Units: mL

Report Date: 10-Oct-2017 12:51:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10030.d

Injection Date: 10-Oct-2017 09:48:25 Instrument ID: LC_LCMS7

Lims ID: std005

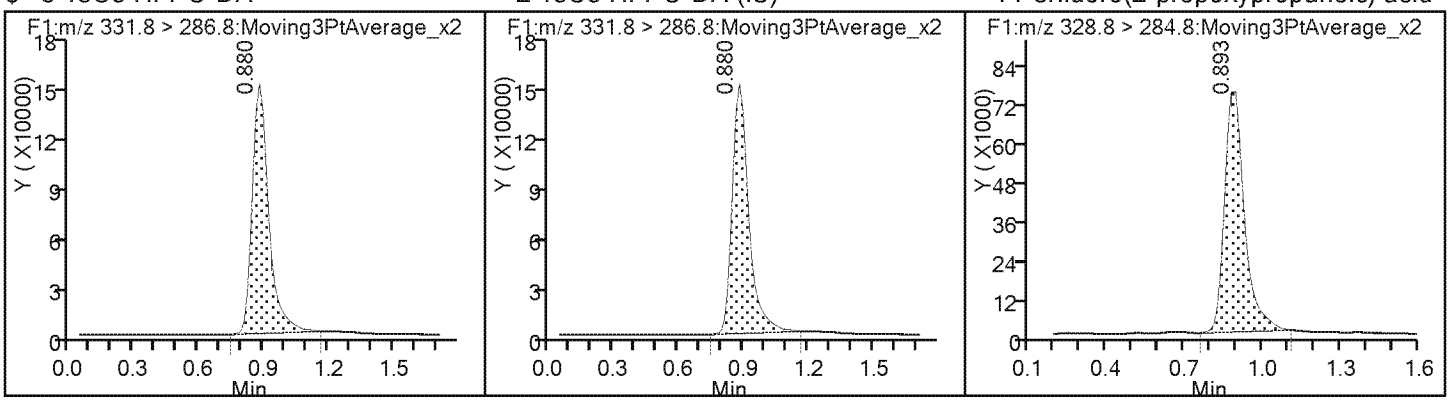
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 7

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10031.d
Lims ID: std006
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 10-Oct-2017 09:51:39 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L6
Misc. Info.: HFPO17J10
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 10-Oct-2017 12:51:49 Calib Date: 10-Oct-2017 09:58:07
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10033.d

Column 1 : Det: F1:MRM
Process Host: XAWRK005

First Level Reviewer: meyera Date: 10-Oct-2017 11:51:00

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	0.880	0.0		731935	10.0	379	
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	0.880	0.0	1.000	731935	10.0	379	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.880	0.885	-0.005	1.000	739399	9.77	298	

Reagents:

HFPO_CAL-6_00070 Amount Added: 1.00 Units: mL

Report Date: 10-Oct-2017 12:51:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10031.d

Injection Date: 10-Oct-2017 09:51:39 Instrument ID: LC_LCMS7

Lims ID: std006

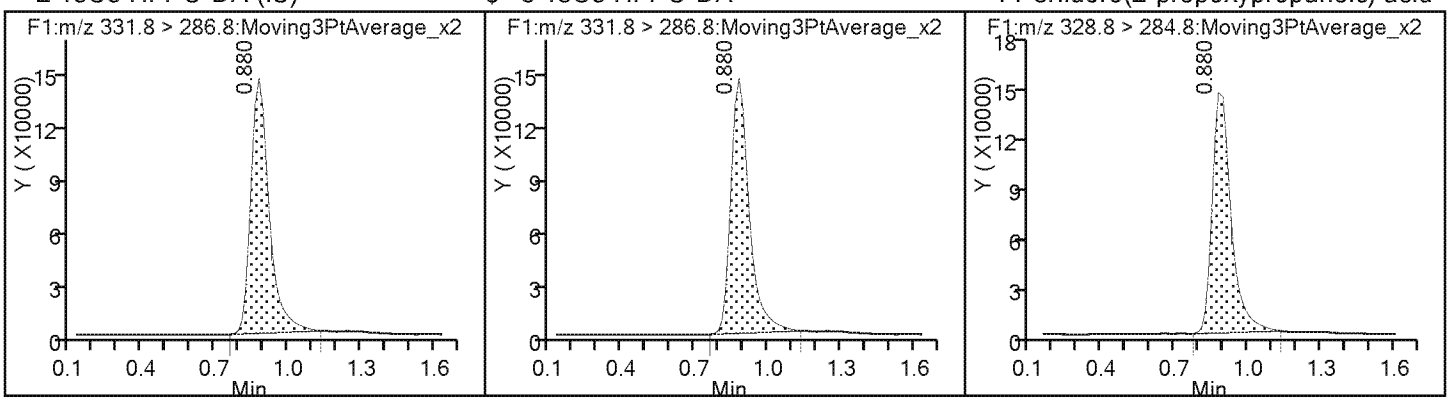
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 8

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

* 2 13C3 HFPO-DA (IS) $ 3 13C3 HFPO-DA 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10032.d
Lims ID: std007
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 10-Oct-2017 09:54:53 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L7
Misc. Info.: HFPO17J10
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 10-Oct-2017 12:51:50 Calib Date: 10-Oct-2017 09:58:07
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10033.d

Column 1 : Det: F1:MRM
Process Host: XAWRK005

First Level Reviewer: meyera Date: 10-Oct-2017 11:51:04

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	0.880	0.0	1.000	729188	9.97	404	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	0.880	0.0		729188	10.0	404	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.880	0.885	-0.005	1.000	1790812	24.0	386	

Reagents:

HFPO_CAL-7_00031 Amount Added: 1.00 Units: mL

Report Date: 10-Oct-2017 12:51:50 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10032.d

Injection Date: 10-Oct-2017 09:54:53 Instrument ID: LC_LCMS7

Lims ID: std007

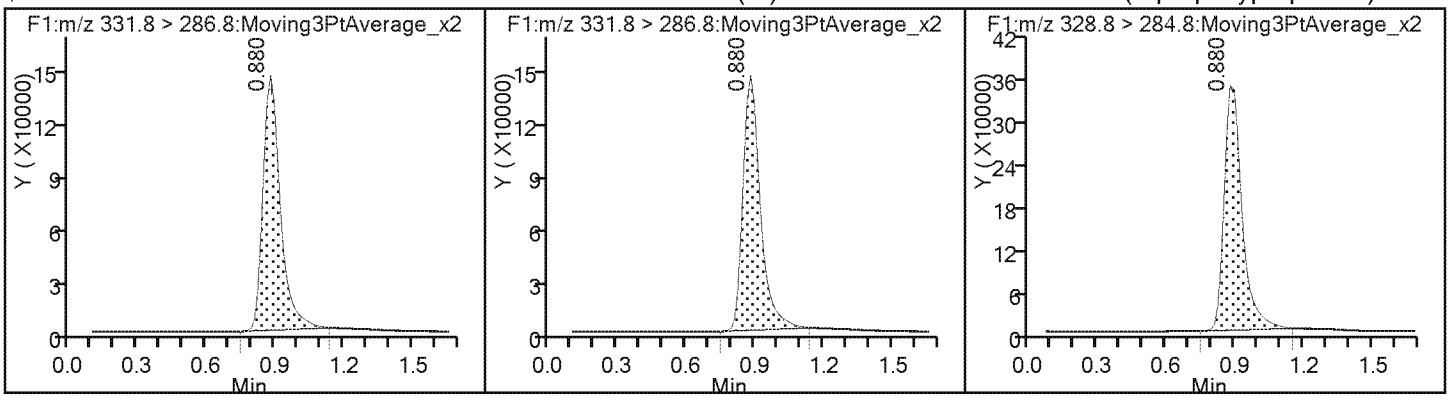
Client ID:

Operator ID: JBH ALS Bottle#: 8 Worklist Smp#: 9

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10033.d
Lims ID: std008
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 10-Oct-2017 09:58:07 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L8
Misc. Info.: HFPO17J10
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 10-Oct-2017 12:51:51 Calib Date: 10-Oct-2017 09:58:07
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10033.d

Column 1 : Det: F1:MRM
Process Host: XAWRK005

First Level Reviewer: meyera Date: 10-Oct-2017 11:51:08

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	0.880	0.0		701420	10.0	373	
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	0.880	0.0	1.000	701420	9.59	373	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.893	0.885	0.008	1.000	3654104	51.3	421	

Reagents:

HFPO_CAL-8_00031 Amount Added: 1.00 Units: mL

Report Date: 10-Oct-2017 12:51:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10033.d

Injection Date: 10-Oct-2017 09:58:07 Instrument ID: LC_LCMS7

Lims ID: std008

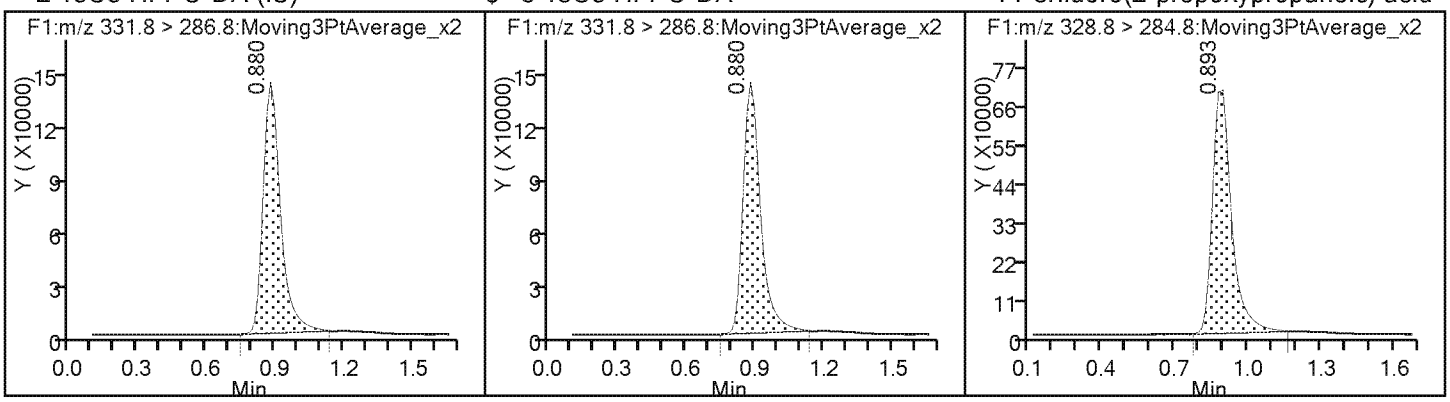
Client ID:

Operator ID: JBH ALS Bottle#: 9 Worklist Smp#: 10

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

* 2 13C3 HFPO-DA (IS) $ 3 13C3 HFPO-DA 1 Perfluoro(2-propoxypropanoic) acid



FORM VI
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106036-1 Analy Batch No.: 404345

SDG No.:

Instrument ID: LC_LCMS7 GC Column: Synergi Hyd ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 13:05 Calibration End Date: 02/08/2018 13:31 Calibration ID: 31612

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-404345/3	hfpo718B08034.d
Level 2	STD002 280-404345/4	hfpo718B08035.d
Level 3	STD003 280-404345/5	hfpo718B08036.d
Level 4	STD004 280-404345/6	hfpo718B08037.d
Level 5	STD005 280-404345/7	hfpo718B08038.d
Level 6	STD006 280-404345/8	hfpo718B08039.d
Level 7	STD007 280-404345/9	hfpo718B08040.d
Level 8	STD008 280-404345/10	hfpo718B08041.d
Level 9	STD009 280-404345/11	hfpo718B08042.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
HFPO-DA	1.056	1.056	1.056	1.056	1.056	1.056	1.056	1.056	1.056		0.556 - 1.556	1.056
13C3 HFPO-DA	1.042	1.042	1.042	1.042	1.042	1.042	1.042	1.056	1.056		0.545 - 1.545	1.045

FORM VI
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-106036-1 Analy Batch No.: 404345

SDG No.:

Instrument ID: LC_LCMS7 GC Column: Synergi Hyd ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 13:05 Calibration End Date: 02/08/2018 13:31 Calibration ID: 31612

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-404345/3	hfpo718B08034.d
Level 2	STD002 280-404345/4	hfpo718B08035.d
Level 3	STD003 280-404345/5	hfpo718B08036.d
Level 4	STD004 280-404345/6	hfpo718B08037.d
Level 5	STD005 280-404345/7	hfpo718B08038.d
Level 6	STD006 280-404345/8	hfpo718B08039.d
Level 7	STD007 280-404345/9	hfpo718B08040.d
Level 8	STD008 280-404345/10	hfpo718B08041.d
Level 9	STD009 280-404345/11	hfpo718B08042.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
13C3 HFPO-DA	75771 75244 71284	75964 75940	72010 75039	77000 73687	Ave		74659.8778				2.6		30.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
LCMS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-106036-1 Analy Batch No.: 404345

SDG No.:

Instrument ID: LC_LCMS7 GC Column: Synergi Hyd ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 13:05 Calibration End Date: 02/08/2018 13:31 Calibration ID: 31612

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
HFPO-DA	1.1630 1.1128	1.1250 1.0911	1.0756 1.0665	1.0527 1.0507	1.1211	Lin1	0.0361	1.0638							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-106036-1 Analy Batch No.: 404345

SDG No.:

Instrument ID: LC_LCMS7 GC Column: Synergi Hyd ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 13:05 Calibration End Date: 02/08/2018 13:31 Calibration ID: 31612

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-404345/3	hfpo718B08034.d
Level 2	STD002 280-404345/4	hfpo718B08035.d
Level 3	STD003 280-404345/5	hfpo718B08036.d
Level 4	STD004 280-404345/6	hfpo718B08037.d
Level 5	STD005 280-404345/7	hfpo718B08038.d
Level 6	STD006 280-404345/8	hfpo718B08039.d
Level 7	STD007 280-404345/9	hfpo718B08040.d
Level 8	STD008 280-404345/10	hfpo718B08041.d
Level 9	STD009 280-404345/11	hfpo718B08042.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
13C3 HFPO-DA	Ave	757714 759397	759642 750388	720099 736869	769995 712841	752444	10.0 10.0	10.0 10.0	10.0 10.0	10.0 10.0	10.0

Curve Type Legend:
Ave = Average

FORM VI
LCMS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-106036-1 Analy Batch No.: 404345

SDG No.:

Instrument ID: LC_LCMS7 GC Column: Synergi Hyd ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 13:05 Calibration End Date: 02/08/2018 13:31 Calibration ID: 31612

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-404345/3	hfpo718B08034.d
Level 2	STD002 280-404345/4	hfpo718B08035.d
Level 3	STD003 280-404345/5	hfpo718B08036.d
Level 4	STD004 280-404345/6	hfpo718B08037.d
Level 5	STD005 280-404345/7	hfpo718B08038.d
Level 6	STD006 280-404345/8	hfpo718B08039.d
Level 7	STD007 280-404345/9	hfpo718B08040.d
Level 8	STD008 280-404345/10	hfpo718B08041.d
Level 9	STD009 280-404345/11	hfpo718B08042.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
HFPO-DA	13CP ODA	Lin1	22031 845082	42730 2046873	77455 3929397	162117 7489478	421775	0.250 10.0	0.500 25.0	1.00 50.0	2.00 100	5.00

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08034.d
Lims ID: std001
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Feb-2018 13:05:38 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L1
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:13 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:04

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.042	1.045	-0.003		757714	10.0	1562	
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.042	1.045	-0.003	1.000	757714	10.1	1562	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	1.056	1.056	0.0	1.000	22031	0.2394	4.4	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

HFPO_CAL-1_00032 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:13 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08034.d

Injection Date: 08-Feb-2018 13:05:38 Instrument ID: LC_LCMS7

Lims ID: std001

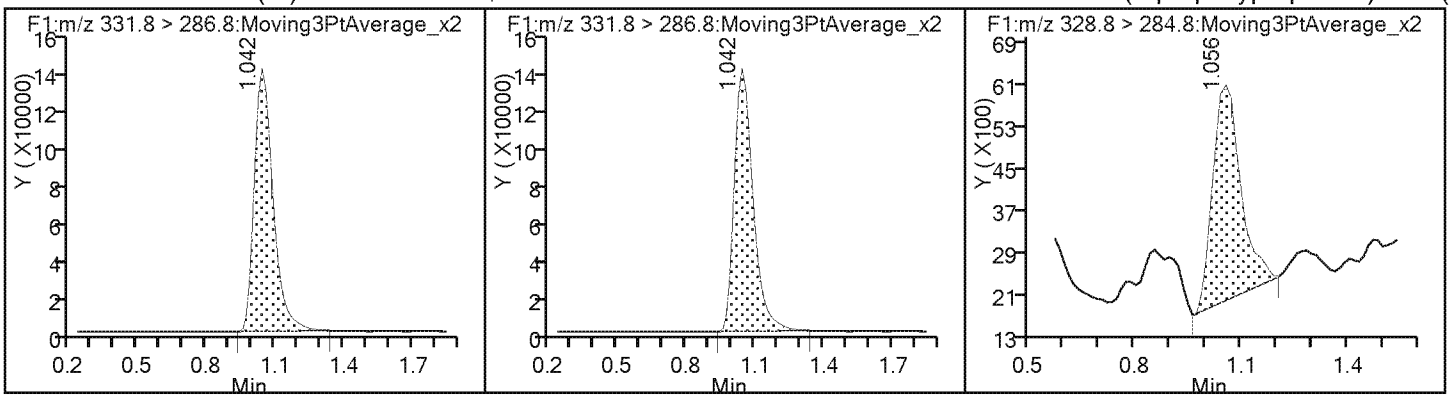
Client ID:

Operator ID: JBH ALS Bottle#: 2 Worklist Smp#: 3

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

* 2 13C3 HFPO-DA (IS) $ 3 13C3 HFPO-DA 1 Perfluoro(2-propoxypropanoic) acid (M)



Manual Integration/User Assign Peak Report

TestAmerica Denver

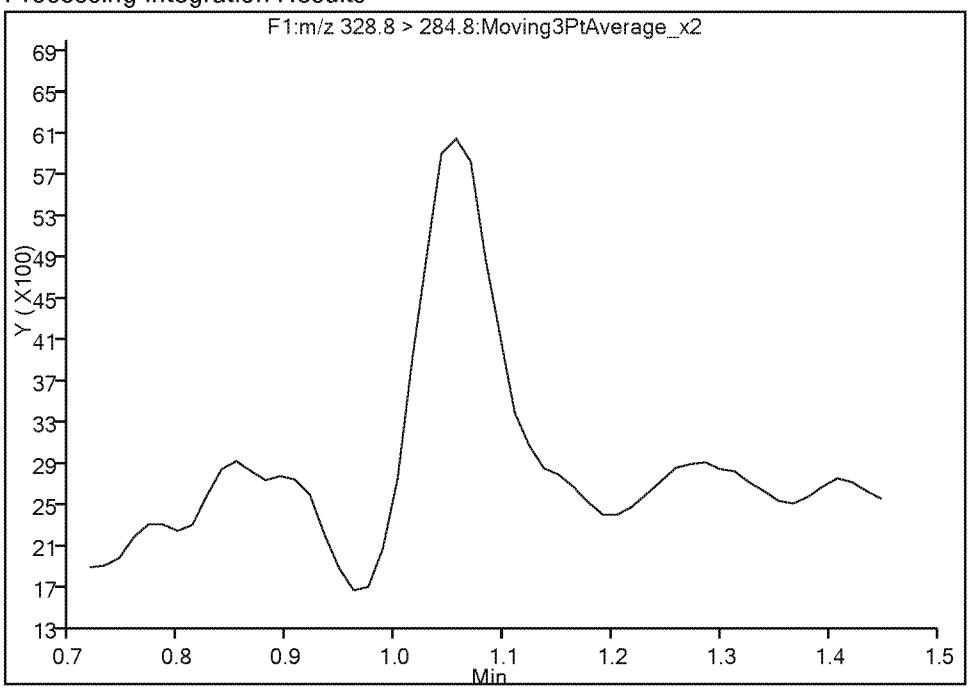
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08034.d				
Injection Date:	08-Feb-2018 13:05:38	Instrument ID:	LC_LCMS7		
Lims ID:	std001				
Client ID:					
Operator ID:	JBH	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

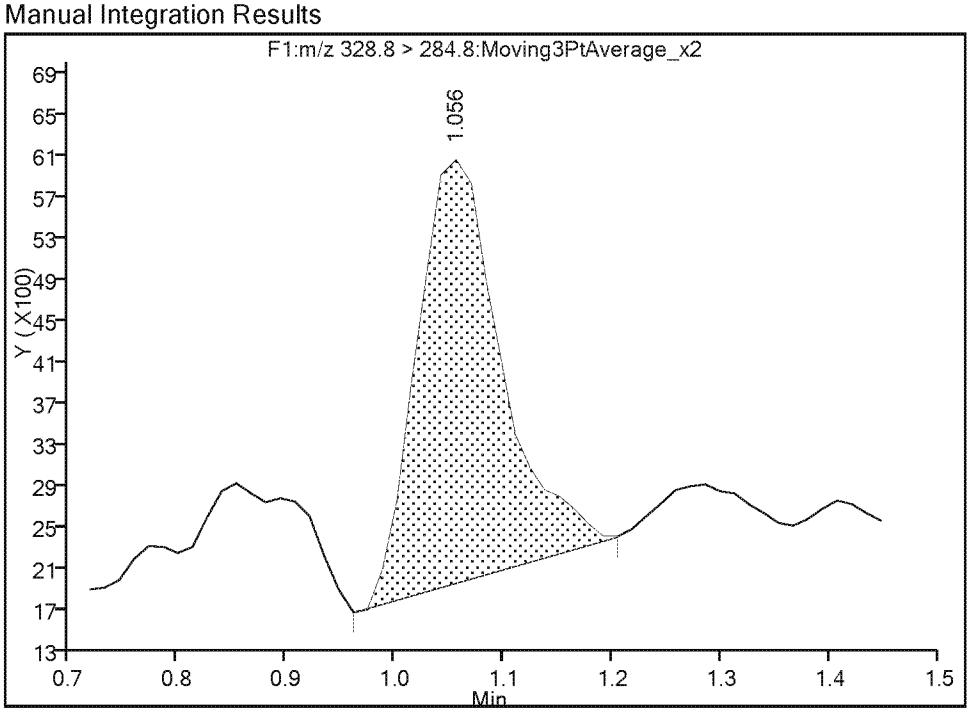
Processing Integration Results

Not Detected
Expected RT: 1.06



Manual Integration Results

RT: 1.06
Area: 22031
Amount: 0.239356
Amount Units: ug/l



Reviewer: meyera, 08-Feb-2018 15:19:01
Audit Action: Manually Integrated Audit Reason: Assign Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08035.d
Lims ID: std002
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Feb-2018 13:08:52 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L2
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:14 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:16

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.042	1.045	-0.003	1.000	759642	10.2	1267	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.042	1.045	-0.003		759642	10.0	1267	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	1.056	1.056	0.0	1.000	42730	0.4948	6.5	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

HFPO_CAL-2_00033 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:14 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08035.d

Injection Date: 08-Feb-2018 13:08:52 Instrument ID: LC_LCMS7

Lims ID: std002

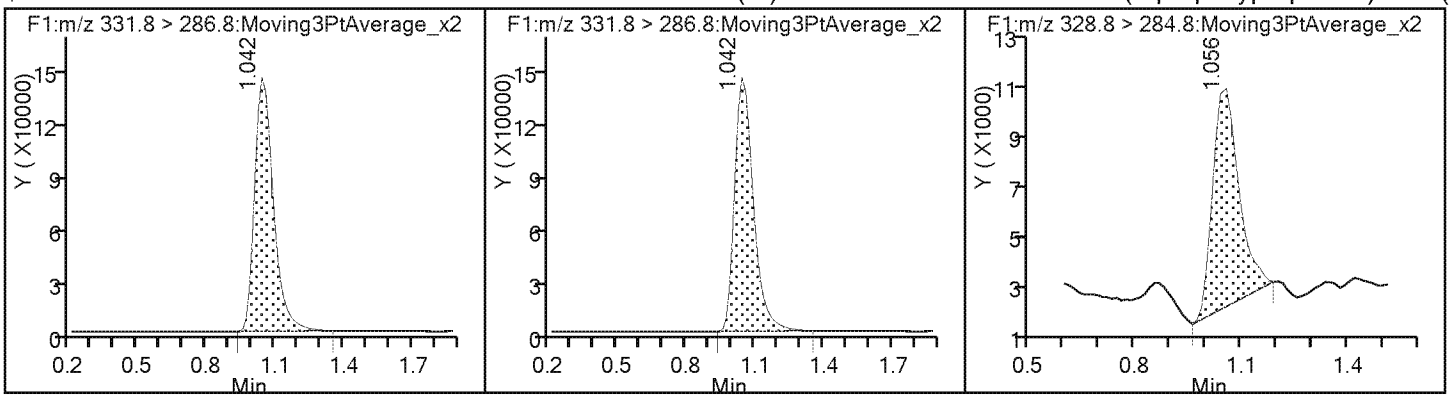
Client ID:

Operator ID: JBH ALS Bottle#: 3 Worklist Smp#: 4

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



Manual Integration/User Assign Peak Report

TestAmerica Denver

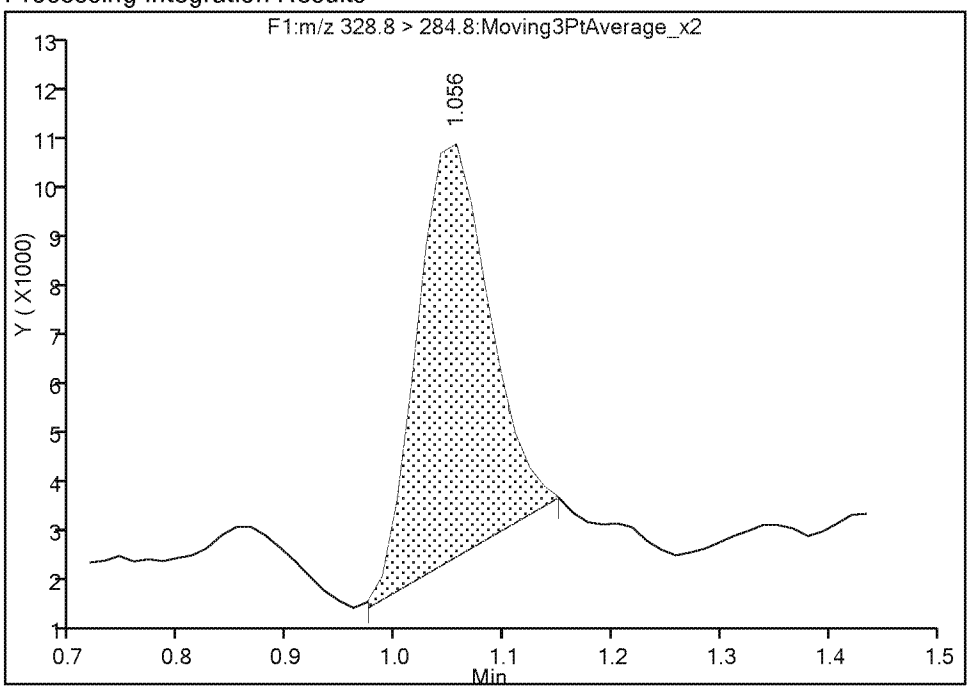
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08035.d				
Injection Date:	08-Feb-2018 13:08:52	Instrument ID:	LC_LCMS7		
Lims ID:	std002				
Client ID:					
Operator ID:	JBH	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

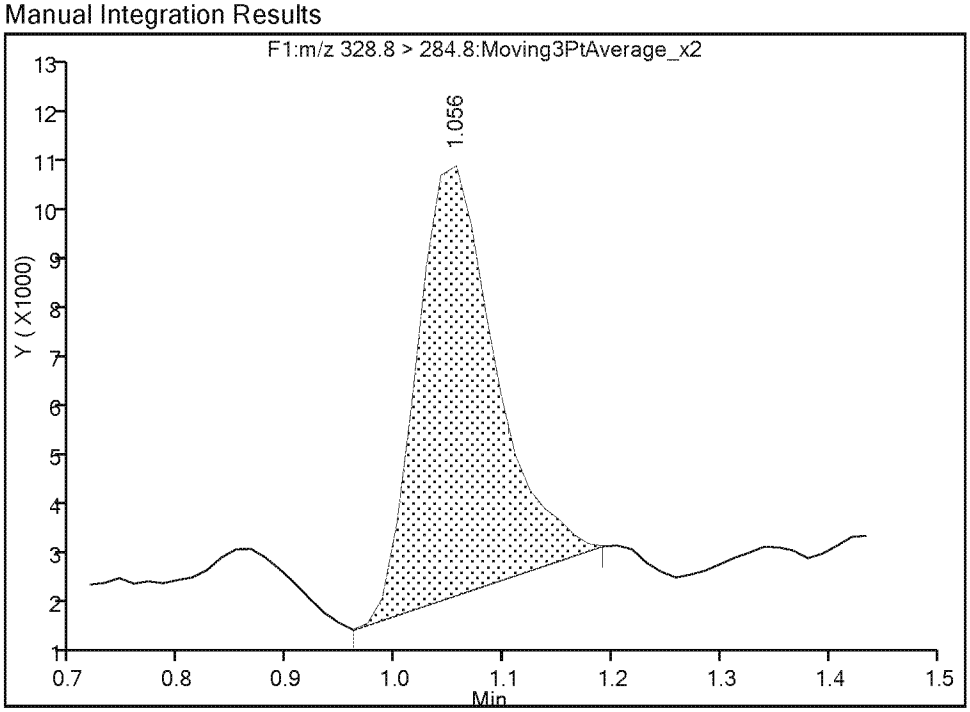
Processing Integration Results

RT: 1.06
Area: 38092
Amount: 0.452274
Amount Units: ug/l



Manual Integration Results

RT: 1.06
Area: 42730
Amount: 0.494804
Amount Units: ug/l



Reviewer: meyera, 08-Feb-2018 15:19:12

Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08036.d
Lims ID: std003
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Feb-2018 13:12:06 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L3
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:14 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:19

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.042	1.045	-0.003		720099	10.0	956	
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.042	1.045	-0.003	1.000	720099	9.65	956	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.056	1.056	0.0	1.000	77455	0.9771	10.6	

Reagents:

HFPO_CAL-3_00032 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:15 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08036.d

Injection Date: 08-Feb-2018 13:12:06 Instrument ID: LC_LCMS7

Lims ID: std003

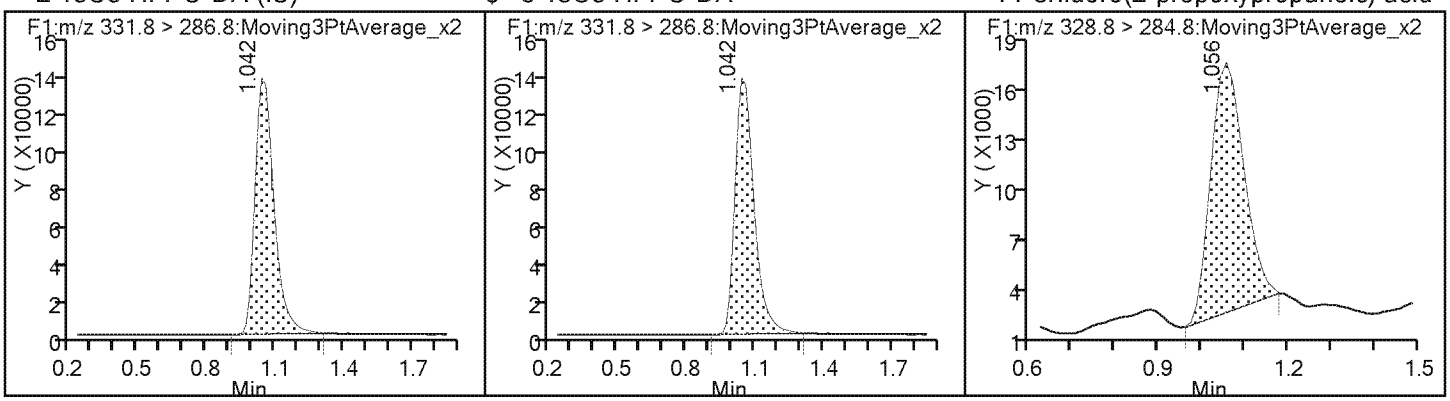
Client ID:

Operator ID: JBH ALS Bottle#: 4 Worklist Smp#: 5

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

* 2 13C3 HFPO-DA (IS) $ 3 13C3 HFPO-DA 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08037.d
Lims ID: std004
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Feb-2018 13:15:21 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L4
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:15 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:22

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.042	1.045	-0.003	1.000	769995	10.3	1154	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.042	1.045	-0.003		769995	10.0	1154	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.056	1.056	0.0	1.000	162117	1.95	26.1	

Reagents:

HFPO_CAL-4_00032 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:15 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08037.d

Injection Date: 08-Feb-2018 13:15:21 Instrument ID: LC_LCMS7

Lims ID: std004

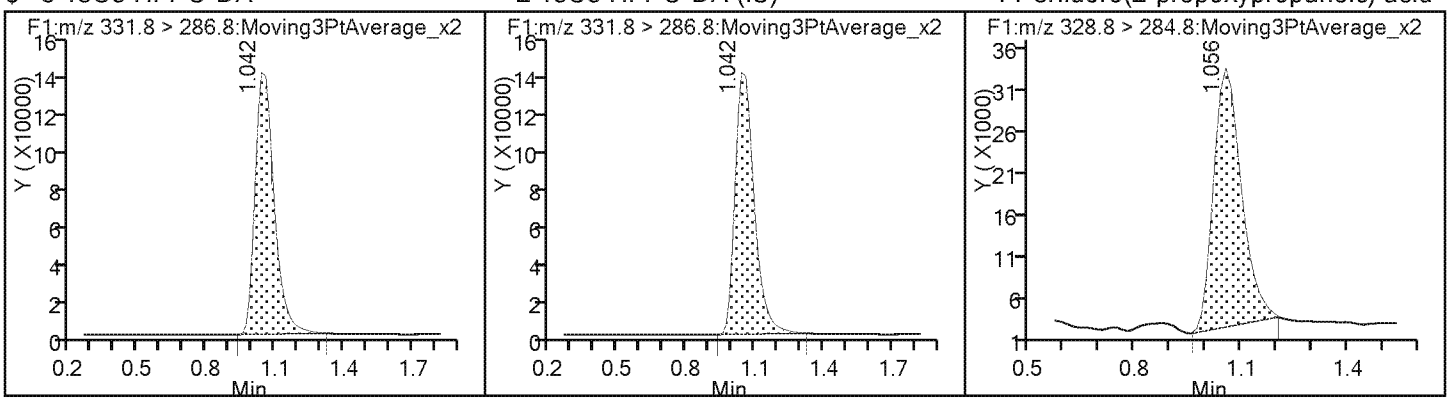
Client ID:

Operator ID: JBH ALS Bottle#: 5 Worklist Smp#: 6

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08038.d
Lims ID: std005
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Feb-2018 13:18:35 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L5
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:15 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:24

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.042	1.045	-0.003		752444	10.0	1072	
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.042	1.045	-0.003	1.000	752444	10.1	1072	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.056	1.056	0.0	1.000	421775	5.24	66.0	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:16 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08038.d

Injection Date: 08-Feb-2018 13:18:35 Instrument ID: LC_LCMS7

Lims ID: std005

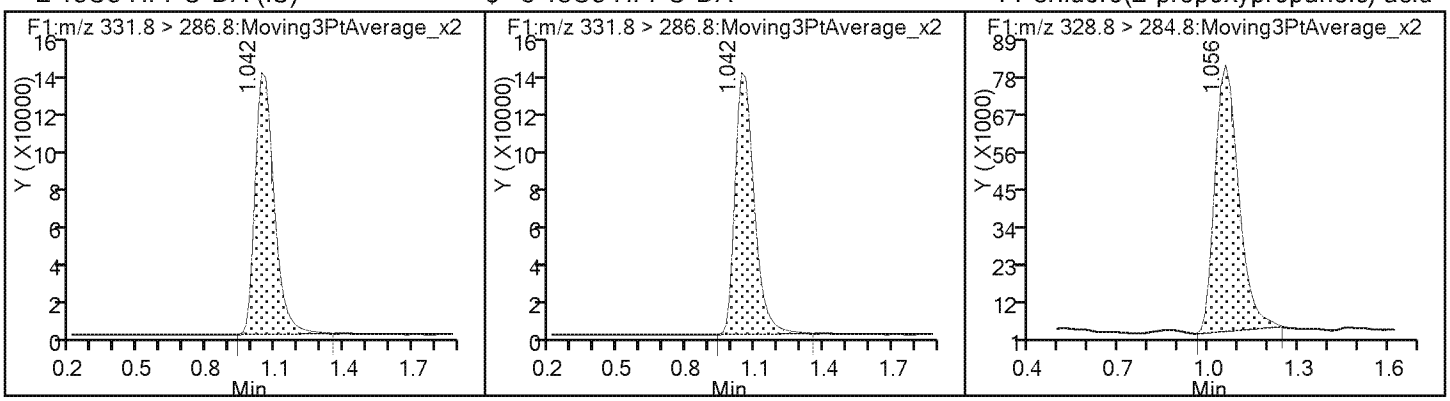
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 7

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

* 2 13C3 HFPO-DA (IS) $ 3 13C3 HFPO-DA 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08039.d
Lims ID: std006
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Feb-2018 13:21:49 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L6
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:16 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:26

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.042	1.045	-0.003	1.000	759397	10.2	1193	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.042	1.045	-0.003		759397	10.0	1193	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.056	1.056	0.0	1.000	845082	10.4	146	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:16 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08039.d

Injection Date: 08-Feb-2018 13:21:49 Instrument ID: LC_LCMS7

Lims ID: std006

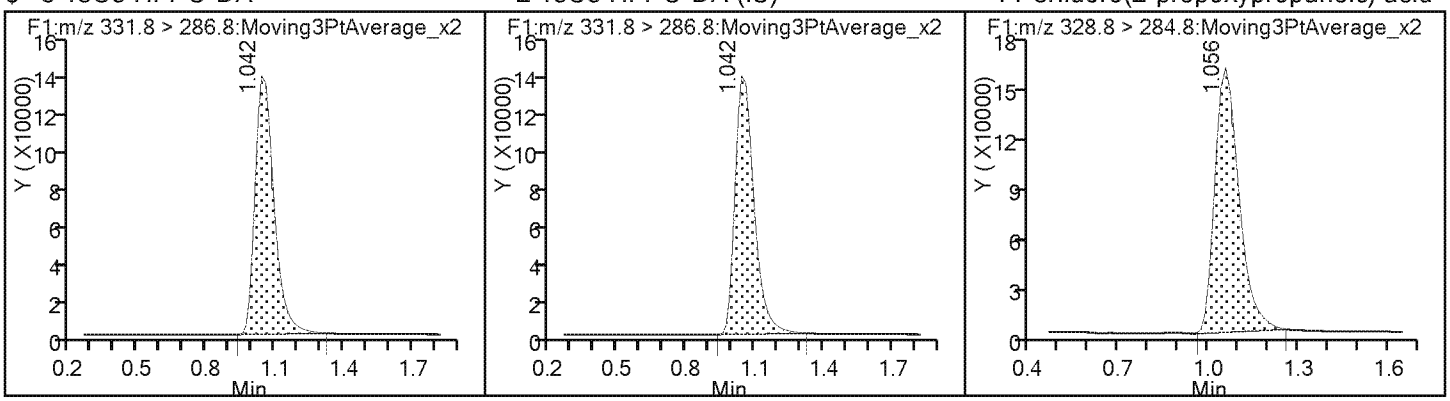
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 8

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08040.d
Lims ID: std007
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Feb-2018 13:25:03 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L7
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:16 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:28

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.042	1.045	-0.003		750388	10.0	1247	
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.042	1.045	-0.003	1.000	750388	10.1	1247	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.056	1.056	0.0	1.000	2046873	25.6	246	

Reagents:

HFPO_CAL-7_00032 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:17 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08040.d

Injection Date: 08-Feb-2018 13:25:03 Instrument ID: LC_LCMS7

Lims ID: std007

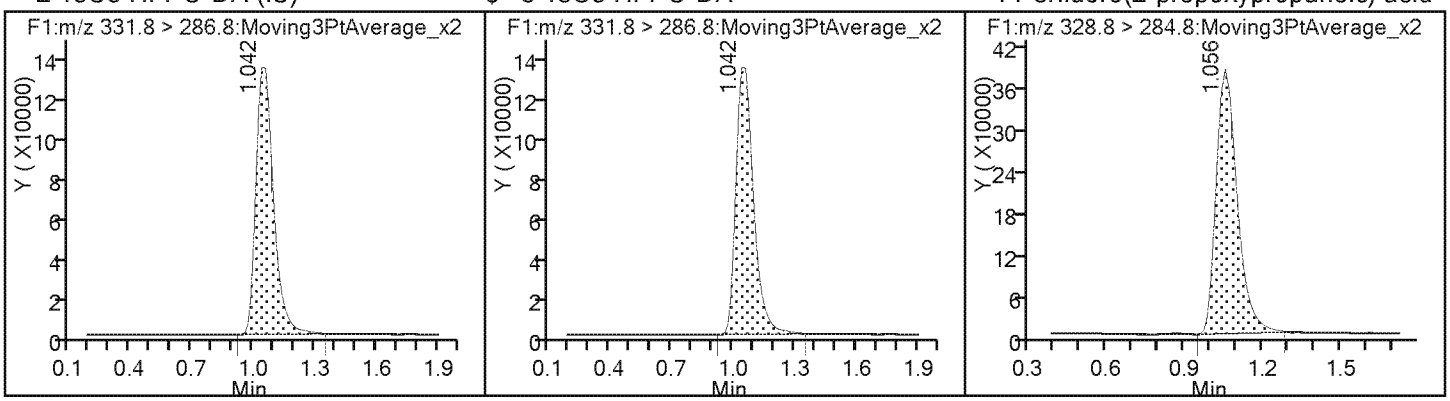
Client ID:

Operator ID: JBH ALS Bottle#: 8 Worklist Smp#: 9

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

* 2 13C3 HFPO-DA (IS) $ 3 13C3 HFPO-DA 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08041.d
Lims ID: std008
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 08-Feb-2018 13:28:18 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L8
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:17 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:30

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.056	1.045	0.011	1.000	736869	9.87	1055	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.056	1.045	0.011		736869	10.0	1055	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.056	1.056	0.0	1.000	3929397	50.1	416	

Reagents:

HFPO_CAL-8_00032 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:17 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08041.d

Injection Date: 08-Feb-2018 13:28:18 Instrument ID: LC_LCMS7

Lims ID: std008

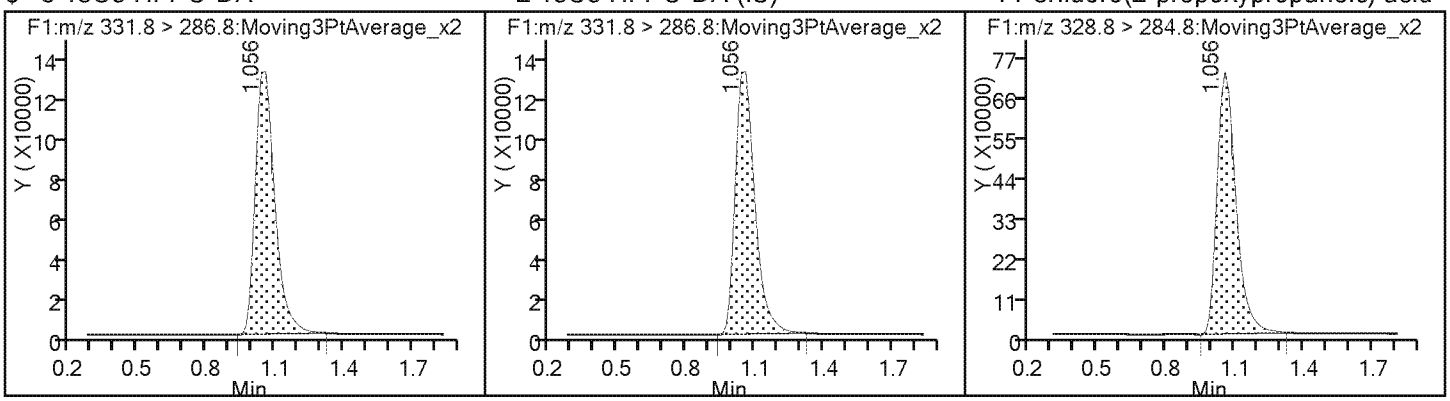
Client ID:

Operator ID: JBH ALS Bottle#: 9 Worklist Smp#: 10

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d
Lims ID: std009
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 08-Feb-2018 13:31:32 ALS Bottle#: 10 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L9
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:17 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:38

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.056	1.045	0.011		712841	10.0	1141	
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.056	1.045	0.011	1.000	712841	9.55	1141	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.056	1.056	0.0	1.000	7489478	98.7	561	

Reagents:

HFPO_CAL-9_00001 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:18 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Injection Date: 08-Feb-2018 13:31:32 Instrument ID: LC_LCMS7

Lims ID: std009

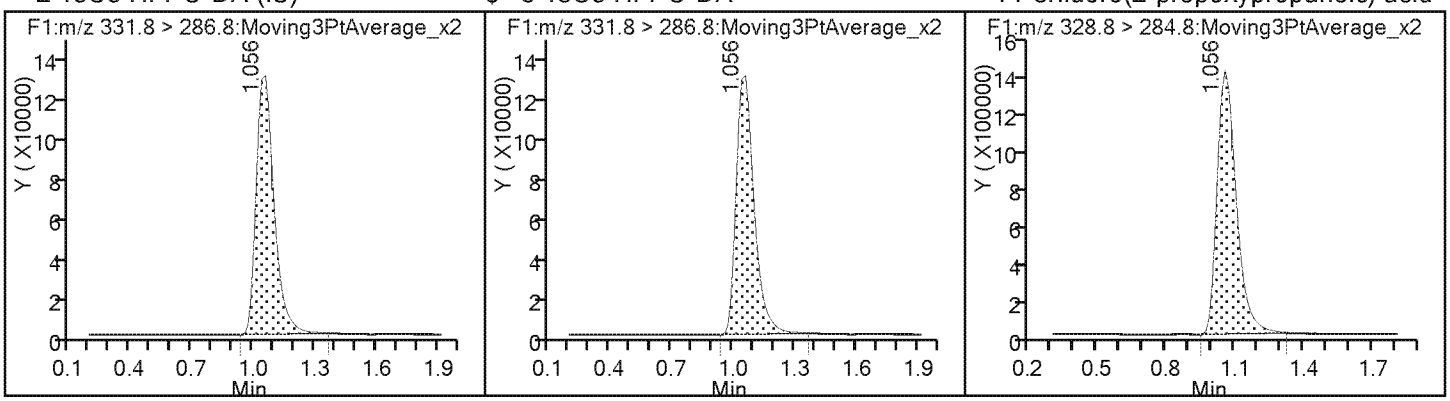
Client ID:

Operator ID: JBH ALS Bottle#: 10 Worklist Smp#: 11

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

* 2 13C3 HFPO-DA (IS) $ 3 13C3 HFPO-DA 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: ICV 280-390728/13 Calibration Date: 10/10/2017 10:07

Instrument ID: LC_LCMS7 Calib Start Date: 10/10/2017 09:35

GC Column: Synergi Hydro ID: Calib End Date: 10/10/2017 09:58

Lab File ID: hfpo717J10036.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro(2-propoxypropanoic) acid	Lin1		1.154		2.07	2.00	3.3	20.0
13C3 HFPO-DA	Ave	73145	72923		9.97	10.0	-0.3	

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10036.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 10-Oct-2017 10:07:48 ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: HFPO17J10
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist:

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 10-Oct-2017 12:51:53 Calib Date: 10-Oct-2017 09:58:07
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10033.d

Column 1 : Det: F1:MRM
Process Host: XAWRK005

First Level Reviewer: meyera Date: 10-Oct-2017 11:51:34

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	0.880	0.0	1.000	729225	9.97	396	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	0.880	0.0		729225	10.0	396	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.893	0.885	0.008	1.000	168368	2.07	111	

Reagents:

HFPO_ICV_00032 Amount Added: 1.00 Units: mL

Report Date: 10-Oct-2017 12:51:53 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10036.d

Injection Date: 10-Oct-2017 10:07:48 Instrument ID: LC_LCMS7

Lims ID: ICV

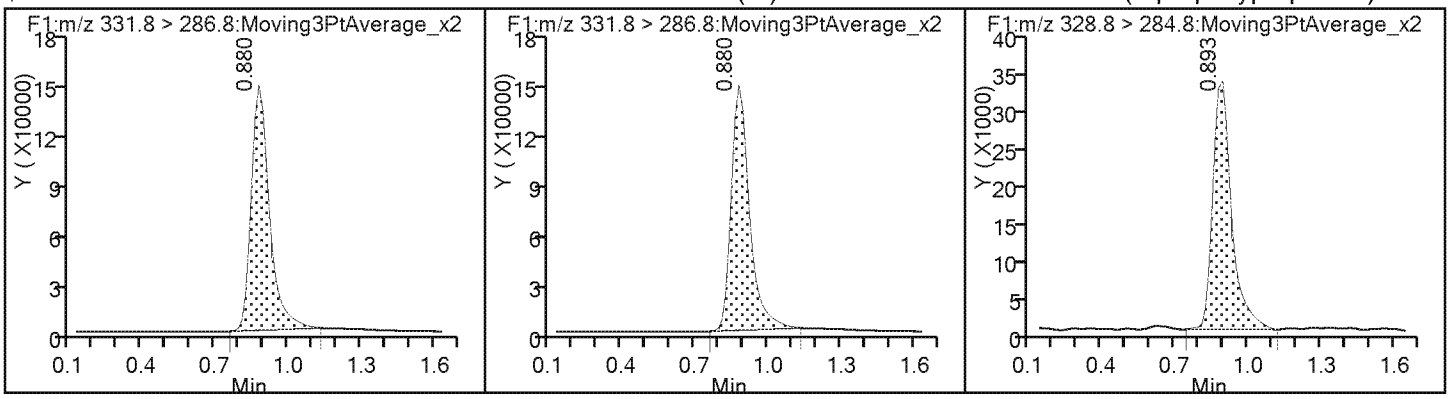
Client ID:

Operator ID: JBH ALS Bottle#: 10 Worklist Smp#: 13

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404641/30 Calibration Date: 02/12/2018 13:38

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12063.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.148		5.36	5.00	7.2	20.0
13C3 HFPO-DA	Ave	74660	63027		8.44	10.0	-15.6	

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12063.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 13:38:59 ALS Bottle#: 6 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:51

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	630269	8.44	1581	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		630269	10.0	1581	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	361706	5.36	112	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 12-Feb-2018 14:31:21 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12063.d

Injection Date: 12-Feb-2018 13:38:59 Instrument ID: LC_LCMS7

Lims ID: CCV L5

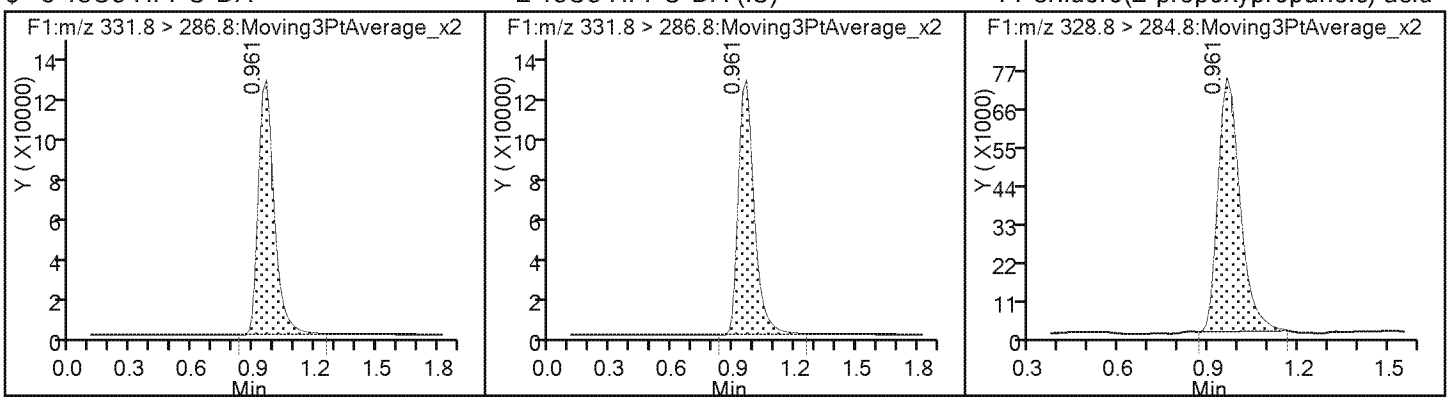
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 30

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404641/41 Calibration Date: 02/12/2018 14:14

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12074.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.116		10.5	10.0	4.5	20.0
13C3 HFPO-DA	Ave	74660	65647		8.79	10.0	-12.1	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12074.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 14:14:58 ALS Bottle#: 7 Worklist Smp#: 41
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:30

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	656470	8.79	1480	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		656470	10.0	1480	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	732478	10.5	159	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 12-Feb-2018 14:31:30 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12074.d

Injection Date: 12-Feb-2018 14:14:58 Instrument ID: LC_LCMS7

Lims ID: CCV L6

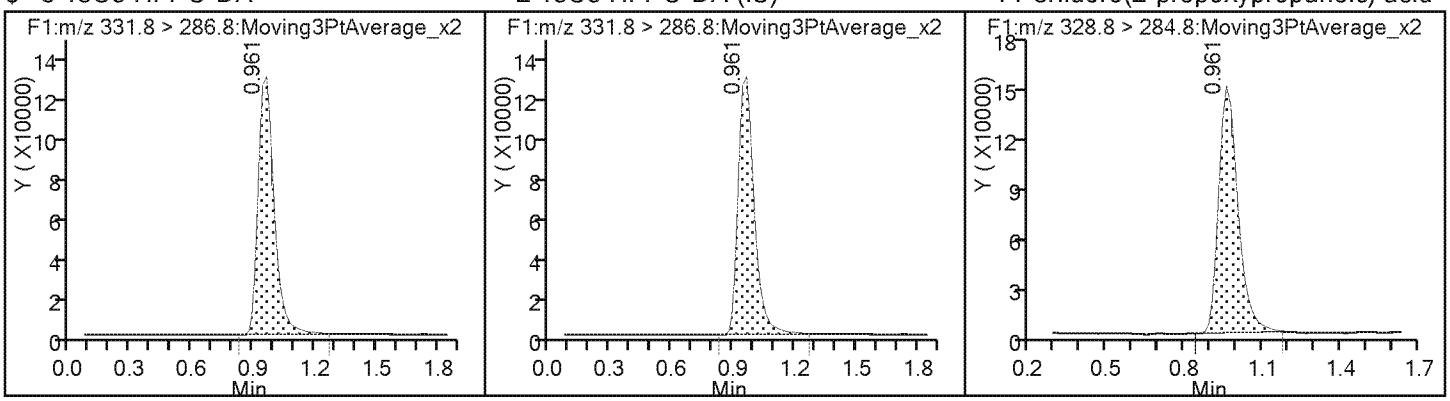
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 41

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404642/48 Calibration Date: 02/12/2018 14:37

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12081.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.195		5.58	5.00	11.6	20.0
13C3 HFPO-DA	Ave	74660	66149		8.86	10.0	-11.4	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12081.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 14:37:48 ALS Bottle#: 6 Worklist Smp#: 48
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:39 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:51:18

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	661491	8.86	1313	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		661491	10.0	1313	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	395189	5.58	157	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 12-Feb-2018 14:51:39 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12081.d

Injection Date: 12-Feb-2018 14:37:48 Instrument ID: LC_LCMS7

Lims ID: CCV L5

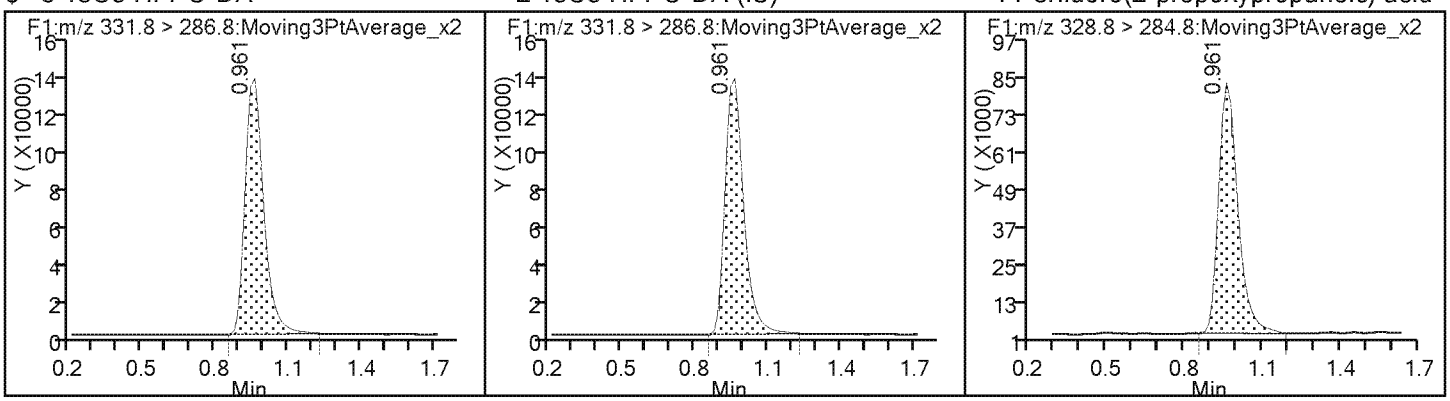
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 48

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404642/55 Calibration Date: 02/12/2018 15:00

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12088.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.156		10.8	10.0	8.4	20.0
13C3 HFPO-DA	Ave	74660	68030		9.11	10.0	-8.9	

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12088.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 15:00:26 ALS Bottle#: 7 Worklist Smp#: 55
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:29

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	680298	9.11	1049	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		680298	10.0	1049	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	786627	10.8	181	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2018 07:56:22 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12088.d

Injection Date: 12-Feb-2018 15:00:26 Instrument ID: LC_LCMS7

Lims ID: CCV L6

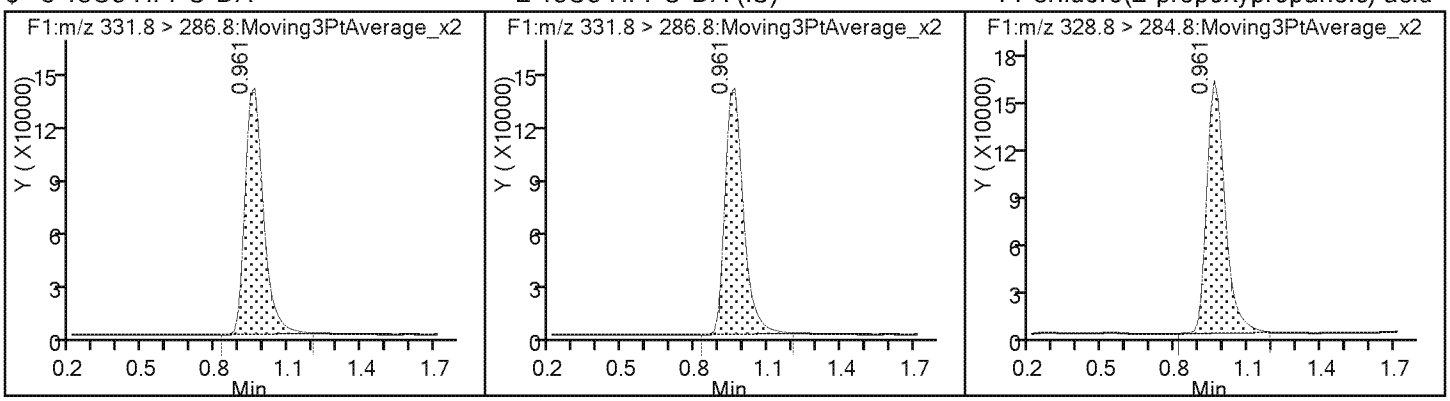
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 55

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404642/66 Calibration Date: 02/12/2018 15:36

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12099.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.188		5.55	5.00	11.0	20.0
13C3 HFPO-DA	Ave	74660	68296		9.15	10.0	-8.5	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12099.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 15:36:07 ALS Bottle#: 6 Worklist Smp#: 66
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:29 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:15

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	682957	9.15	1360	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		682957	10.0	1360	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	405795	5.55	114	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2018 07:56:30 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12099.d

Injection Date: 12-Feb-2018 15:36:07 Instrument ID: LC_LCMS7

Lims ID: CCV L5

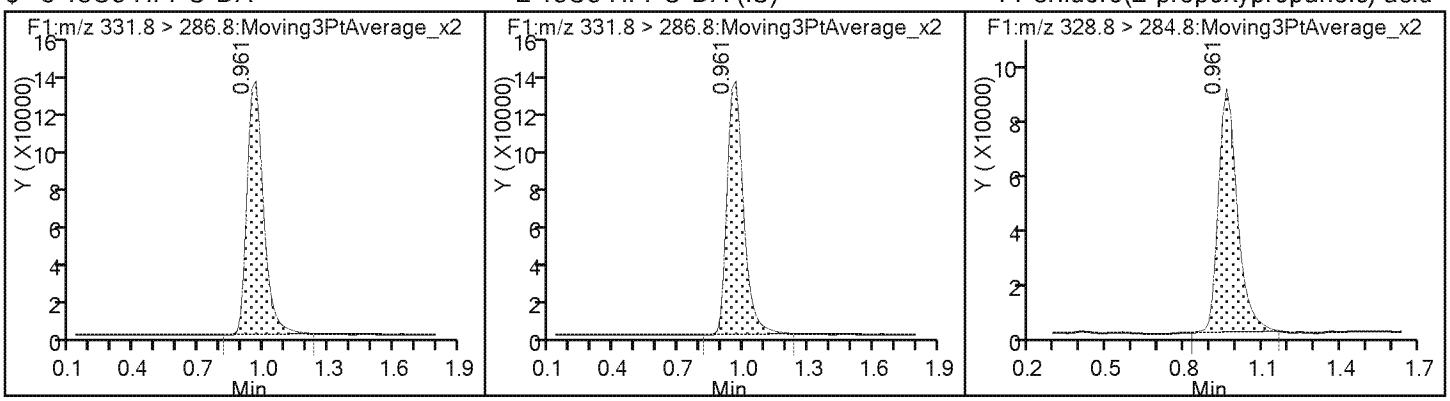
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 66

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404642/73 Calibration Date: 02/12/2018 15:58

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12106.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.137		10.7	10.0	6.6	20.0
13C3 HFPO-DA	Ave	74660	70494		9.44	10.0	-5.6	

FORM VII 8321A

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404643/73 Calibration Date: 02/12/2018 15:58

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12106.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.137		10.7	10.0	6.6	20.0
13C3 HFPO-DA	Ave	74660	70494		9.44	10.0	-5.6	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12106.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 15:58:52 ALS Bottle#: 7 Worklist Smp#: 73
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:33 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:13

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	704940	9.44	1353	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		704940	10.0	1353	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	801638	10.7	247	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12106.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 15:58:52 ALS Bottle#: 7 Worklist Smp#: 73
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:33 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:13

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	704940	9.44	1353	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		704940	10.0	1353	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	801638	10.7	247	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2018 07:56:34 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12106.d

Injection Date: 12-Feb-2018 15:58:52 Instrument ID: LC_LCMS7

Lims ID: CCV L6

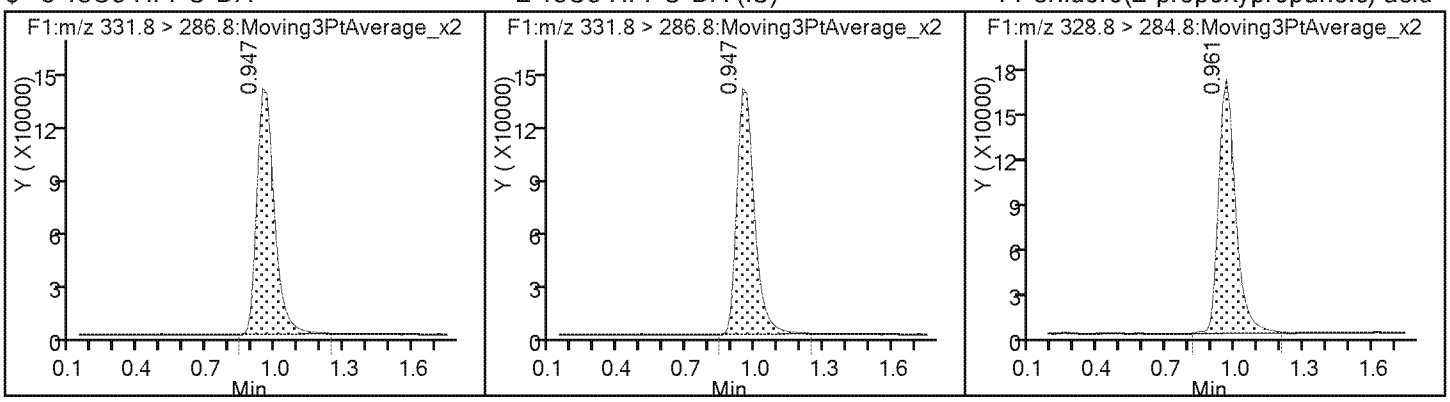
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 73

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



Report Date: 13-Feb-2018 07:56:34 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12106.d

Injection Date: 12-Feb-2018 15:58:52 Instrument ID: LC_LCMS7

Lims ID: CCV L6

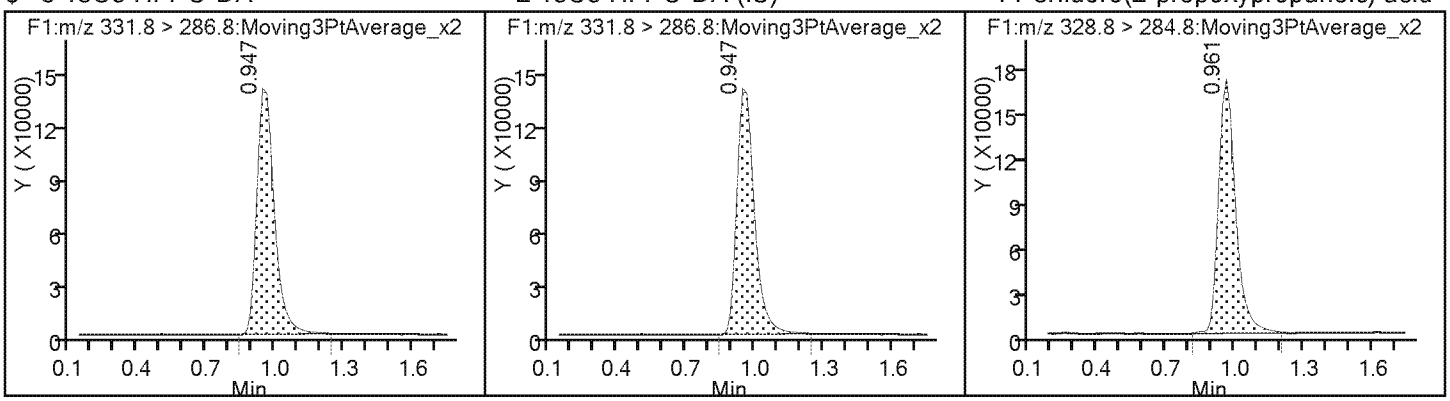
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 73

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404643/84 Calibration Date: 02/12/2018 16:34

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12117.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.210		5.65	5.00	13.0	20.0
13C3 HFPO-DA	Ave	74660	70731		9.47	10.0	-5.3	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12117.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 16:34:51 ALS Bottle#: 6 Worklist Smp#: 84
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:40 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:50:29

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	707314	9.47	1117	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		707314	10.0	1117	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	427805	5.65	125	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2018 07:56:40 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12117.d

Injection Date: 12-Feb-2018 16:34:51 Instrument ID: LC_LCMS7

Lims ID: CCV L5

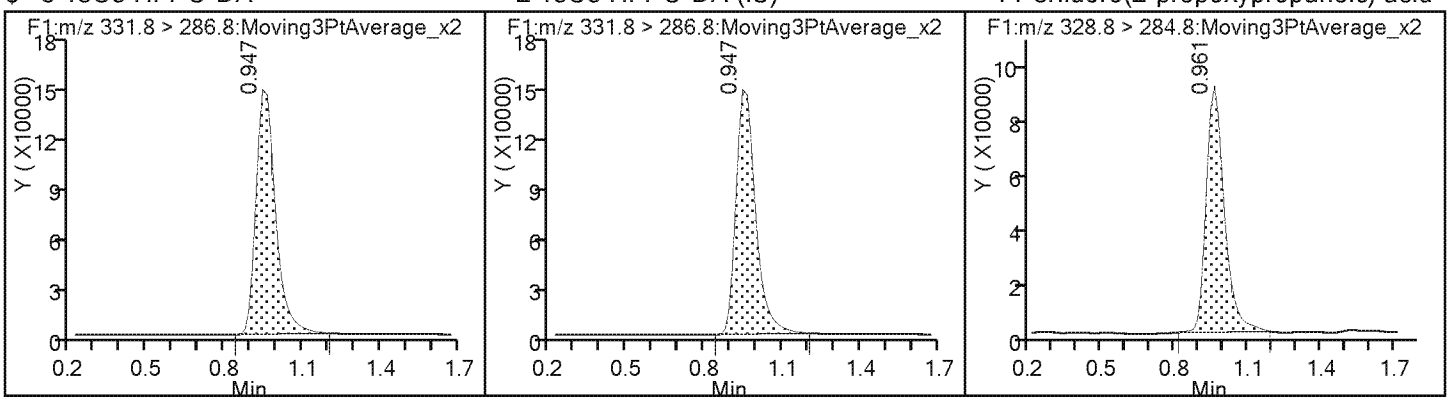
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 84

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404643/94 Calibration Date: 02/12/2018 17:07

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12127.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.124		10.5	10.0	5.3	20.0
13C3 HFPO-DA	Ave	74660	72113		9.66	10.0	-3.4	

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12127.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 17:07:36 ALS Bottle#: 7 Worklist Smp#: 94
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:51:26

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	721133	9.66	1589	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		721133	10.0	1589	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	810677	10.5	307	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2018 07:56:45 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12127.d

Injection Date: 12-Feb-2018 17:07:36 Instrument ID: LC_LCMS7

Lims ID: CCV L6

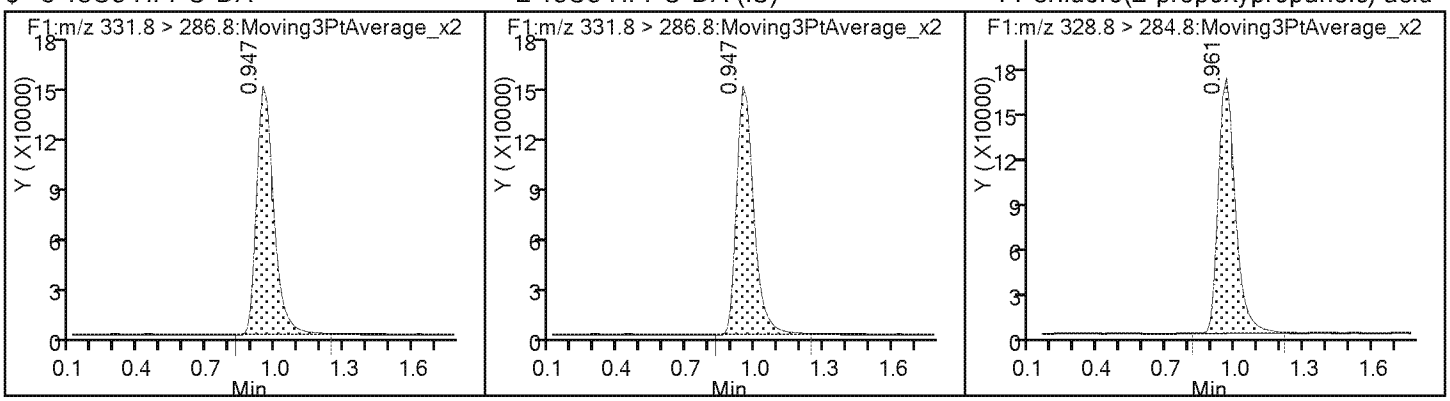
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 94

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404644/102 Calibration Date: 02/12/2018 17:33

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12135.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.139		5.32	5.00	6.4	20.0
13C3 HFPO-DA	Ave	74660	72416		9.70	10.0	-3.0	

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12135.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 17:33:41 ALS Bottle#: 6 Worklist Smp#: 102
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:49 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:51:55

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	724157	9.70	1180	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		724157	10.0	1180	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	412435	5.32	112	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2018 07:56:49 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12135.d

Injection Date: 12-Feb-2018 17:33:41 Instrument ID: LC_LCMS7

Lims ID: CCV L5

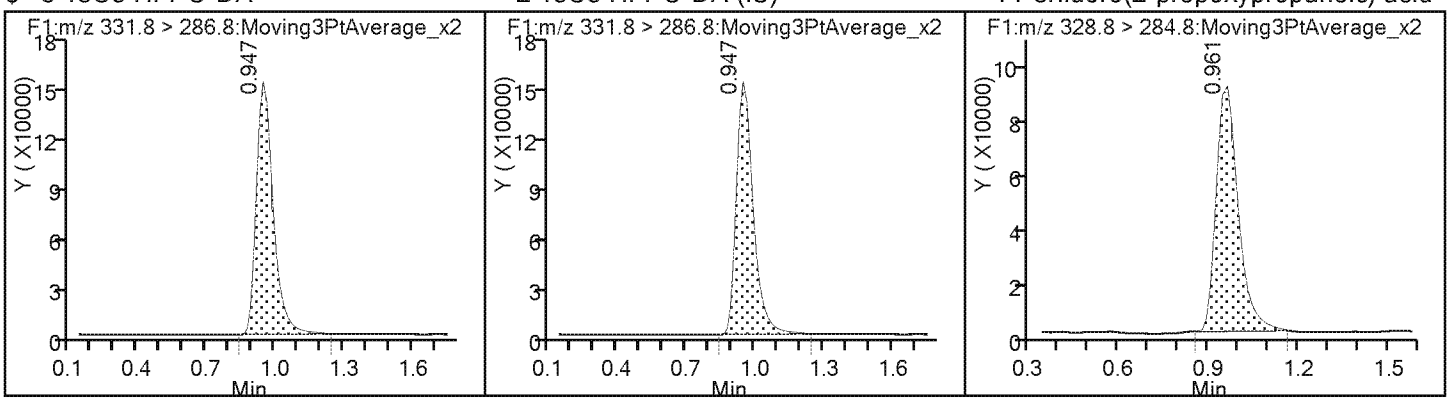
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 102

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404644/111 Calibration Date: 02/12/2018 18:02

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12144.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.166		10.9	10.0	9.3	20.0
13C3 HFPO-DA	Ave	74660	71421		9.57	10.0	-4.3	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12144.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 18:02:54 ALS Bottle#: 7 Worklist Smp#: 111
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:54 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:30

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	714212	9.57	1057	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		714212	10.0	1057	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	832822	10.9	182	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2018 07:56:54 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12144.d

Injection Date: 12-Feb-2018 18:02:54 Instrument ID: LC_LCMS7

Lims ID: CCV L6

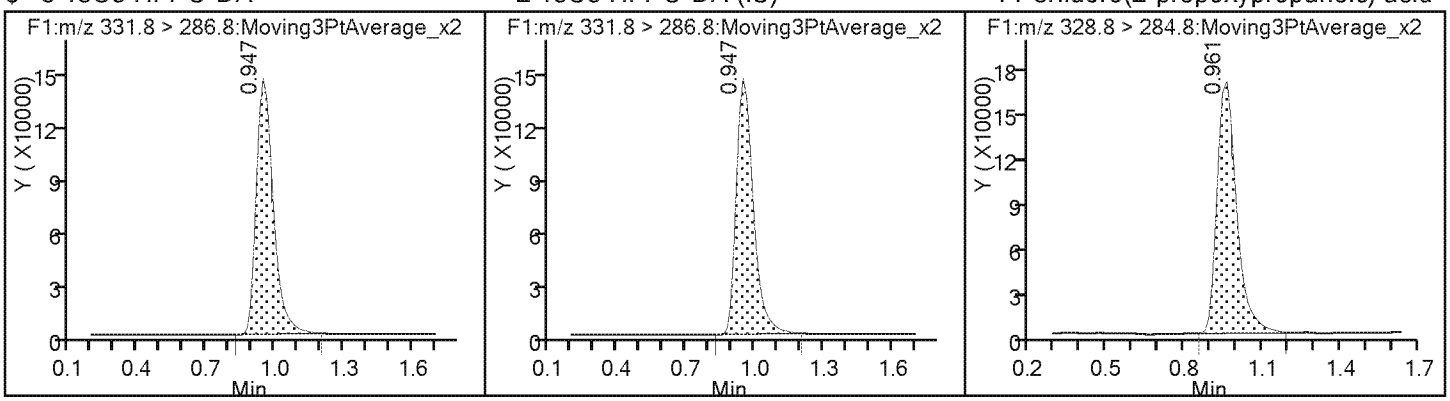
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 111

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404644/118 Calibration Date: 02/12/2018 18:25

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12151.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.159		5.42	5.00	8.3	20.0
13C3 HFPO-DA	Ave	74660	73099		9.79	10.0	-2.1	

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12151.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 18:25:42 ALS Bottle#: 6 Worklist Smp#: 118
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:59

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	730985	9.79	1304	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		730985	10.0	1304	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	423781	5.42	144	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 13-Feb-2018 07:56:58 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12151.d

Injection Date: 12-Feb-2018 18:25:42 Instrument ID: LC_LCMS7

Lims ID: CCV L5

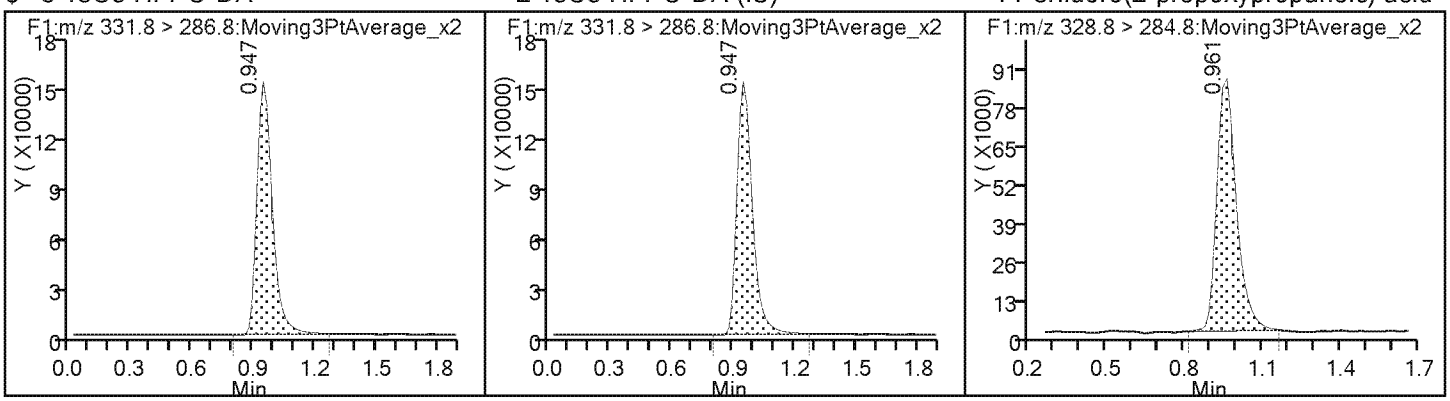
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 118

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404879/61 Calibration Date: 02/13/2018 12:23

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B13082.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.167		5.45	5.00	9.0	20.0
13C3 HFPO-DA	Ave	74660	71530		9.58	10.0	-4.2	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13082.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 13-Feb-2018 12:23:08 ALS Bottle#: 6 Worklist Smp#: 61
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:18

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.988	1.045	-0.057	1.000	715295	9.58	1164	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.988	1.045	-0.057		715295	10.0	1164	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.002	1.056	-0.054	1.000	417302	5.45	102	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 14-Feb-2018 07:00:31 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13082.d

Injection Date: 13-Feb-2018 12:23:08 Instrument ID: LC_LCMS7

Lims ID: CCV L5

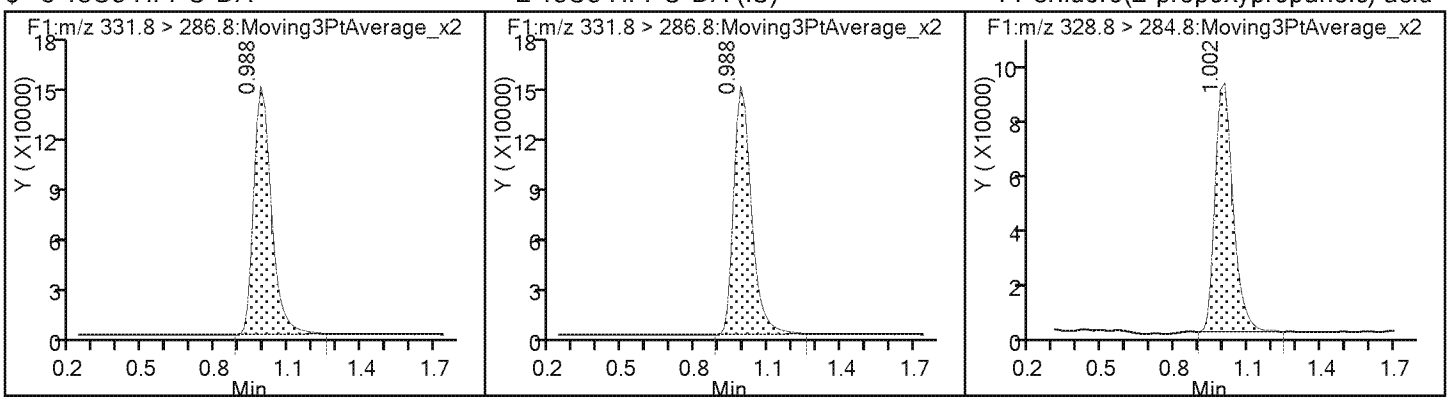
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 61

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404879/71 Calibration Date: 02/13/2018 12:55

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B13092.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.158		10.9	10.0	8.5	20.0
13C3 HFPO-DA	Ave	74660	80224		10.7	10.0	7.5	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13092.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 13-Feb-2018 12:55:31 ALS Bottle#: 7 Worklist Smp#: 71
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:41 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:39

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	802241	10.7	1399	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		802241	10.0	1399	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	929099	10.9	298	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 14-Feb-2018 07:00:41 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13092.d

Injection Date: 13-Feb-2018 12:55:31 Instrument ID: LC_LCMS7

Lims ID: CCV L6

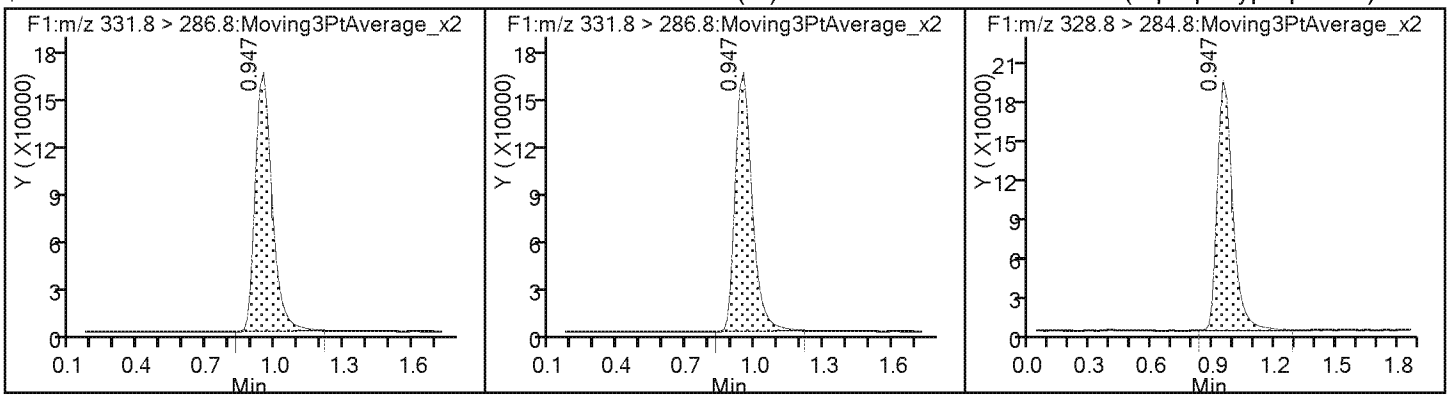
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 71

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404879/72 Calibration Date: 02/13/2018 14:06

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B13111.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.071		5.00	5.00	-0.0	20.0
13C3 HFPO-DA	Ave	74660	75215		10.1	10.0	0.7	

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13111.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 13-Feb-2018 14:06:40 ALS Bottle#: 6 Worklist Smp#: 72
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:41 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:41

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	752145	10.1	1212	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		752145	10.0	1212	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	402617	5.00	216	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 14-Feb-2018 07:00:42 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13111.d

Injection Date: 13-Feb-2018 14:06:40 Instrument ID: LC_LCMS7

Lims ID: CCV L5

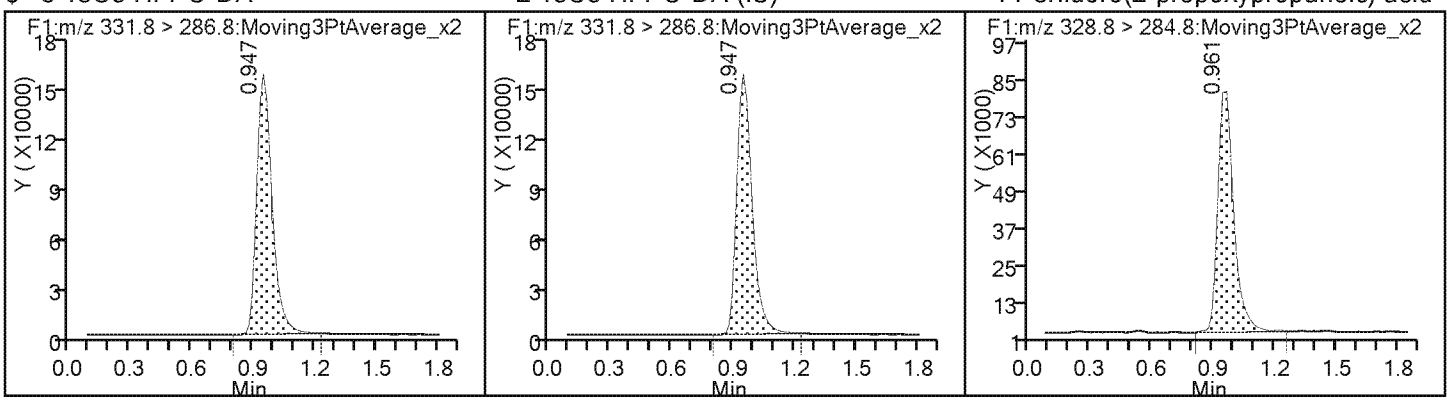
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 72

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404879/80 Calibration Date: 02/13/2018 14:32

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B13119.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.065		9.98	10.0	-0.2	20.0
13C3 HFPO-DA	Ave	74660	80391		10.8	10.0	7.7	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13119.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 13-Feb-2018 14:32:48 ALS Bottle#: 7 Worklist Smp#: 80
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:49 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:58

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	803910	10.8	1271	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		803910	10.0	1271	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	856029	9.98	221	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 14-Feb-2018 07:00:49 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13119.d

Injection Date: 13-Feb-2018 14:32:48 Instrument ID: LC_LCMS7

Lims ID: CCV L6

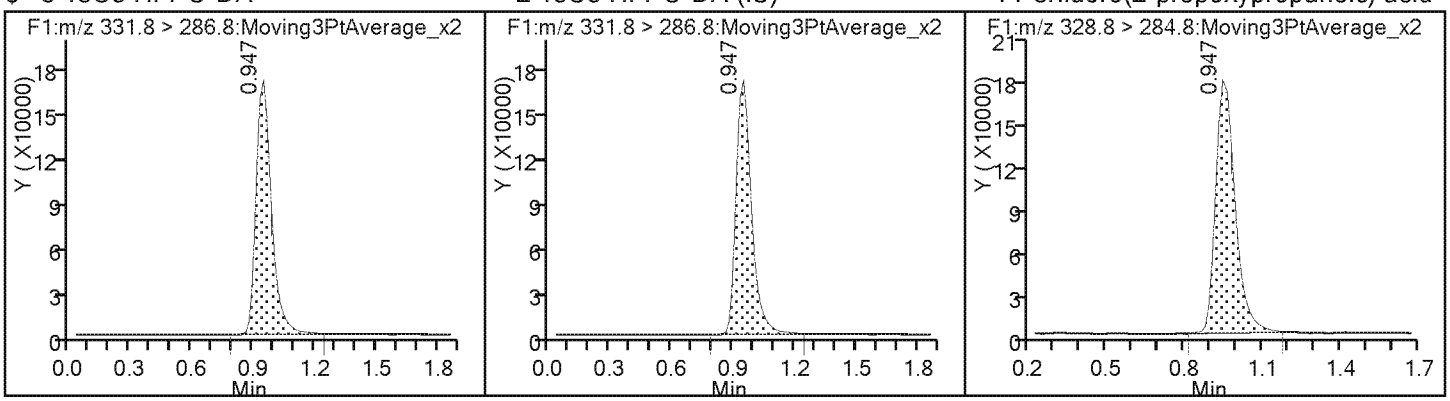
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 80

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-404879/91 Calibration Date: 02/13/2018 15:08

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B13130.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.072		5.00	5.00	0.0	20.0
13C3 HFPO-DA	Ave	74660	85048		11.4	10.0	13.9	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13130.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 13-Feb-2018 15:08:43 ALS Bottle#: 6 Worklist Smp#: 91
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:01:00 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:59:21

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	850479	11.4	1385	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		850479	10.0	1385	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	455779	5.00	144	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 14-Feb-2018 07:01:00 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13130.d

Injection Date: 13-Feb-2018 15:08:43 Instrument ID: LC_LCMS7

Lims ID: CCV L5

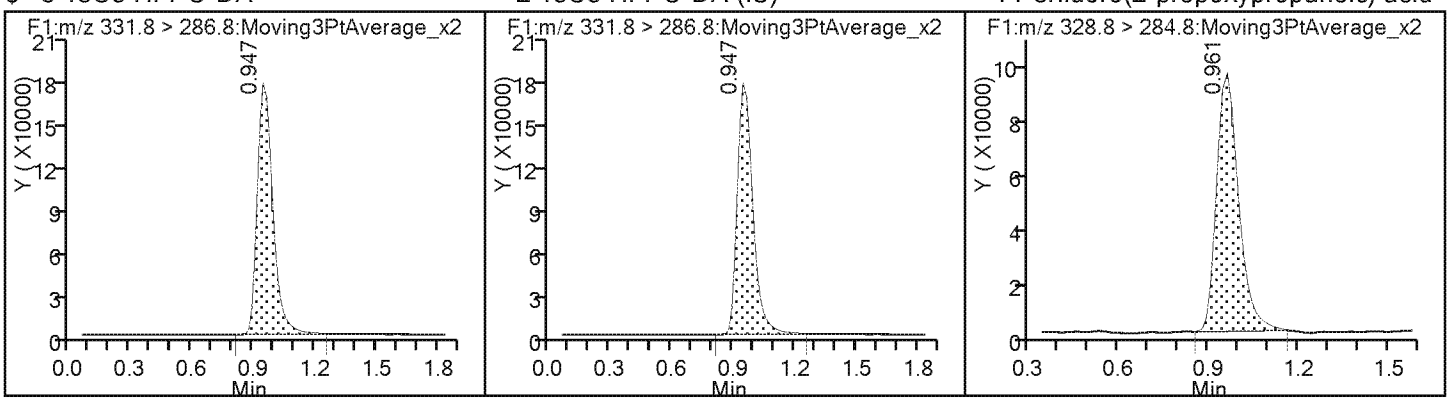
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 91

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-405022/7 Calibration Date: 02/14/2018 08:00

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B14007.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.048		4.89	5.00	-2.2	20.0
13C3 HFPO-DA	Ave	74660	80194		10.7	10.0	7.4	

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14007.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 14-Feb-2018 08:00:33 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:28

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	801944	10.7	1369	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		801944	10.0	1369	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	420148	4.89	128	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 15-Feb-2018 06:58:45 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14007.d

Injection Date: 14-Feb-2018 08:00:33 Instrument ID: LC_LCMS7

Lims ID: CCV L5

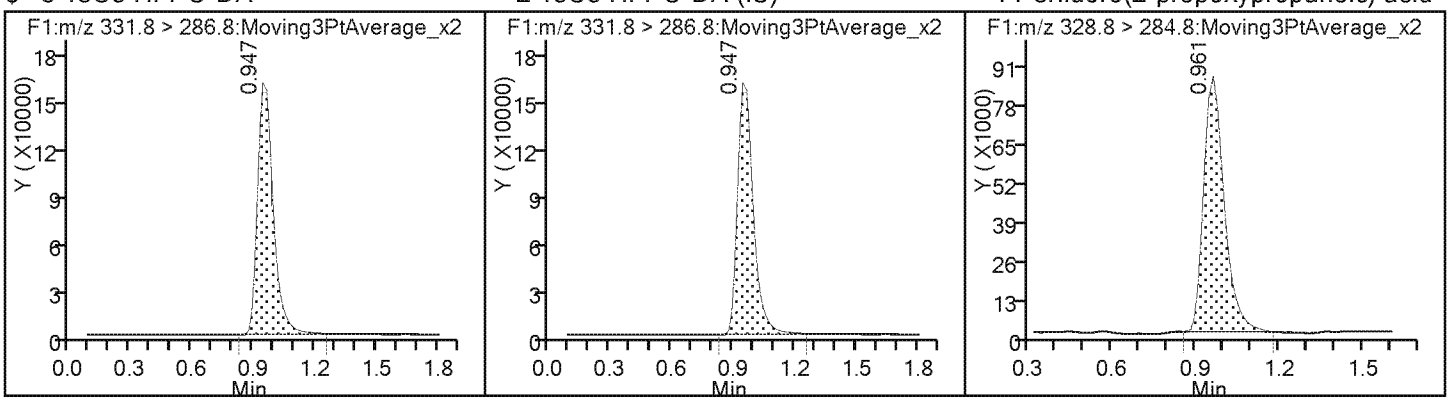
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 7

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-405022/18 Calibration Date: 02/14/2018 08:36

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B14018.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.072		5.00	5.00	0.0	20.0
13C3 HFPO-DA	Ave	74660	84197		11.3	10.0	12.8	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14018.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 14-Feb-2018 08:36:31 ALS Bottle#: 6 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:50 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:33

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	841972	11.3	1594	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		841972	10.0	1594	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	451105	5.00	139	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 15-Feb-2018 06:58:51 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14018.d

Injection Date: 14-Feb-2018 08:36:31 Instrument ID: LC_LCMS7

Lims ID: CCV L5

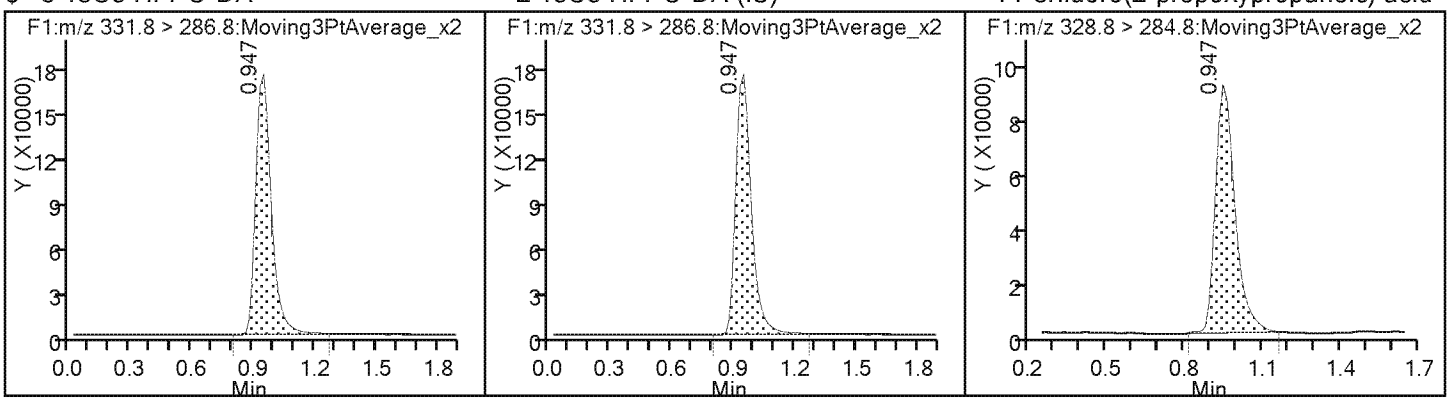
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 18

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Lab Sample ID: CCV 280-405022/28 Calibration Date: 02/14/2018 09:09

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B14028.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.079		10.1	10.0	1.1	20.0
13C3 HFPO-DA	Ave	74660	80964		10.8	10.0	8.4	

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14028.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 14-Feb-2018 09:09:04 ALS Bottle#: 7 Worklist Smp#: 28
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:56 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:54

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	809643	10.8	1438	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		809643	10.0	1438	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	873557	10.1	205	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 15-Feb-2018 06:58:56 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14028.d

Injection Date: 14-Feb-2018 09:09:04 Instrument ID: LC_LCMS7

Lims ID: CCV L6

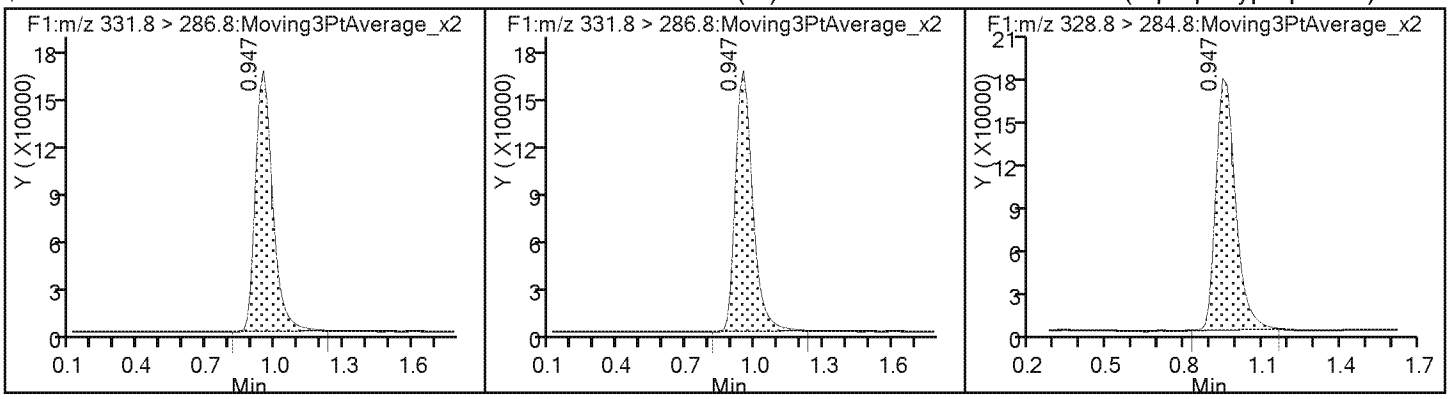
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 28

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

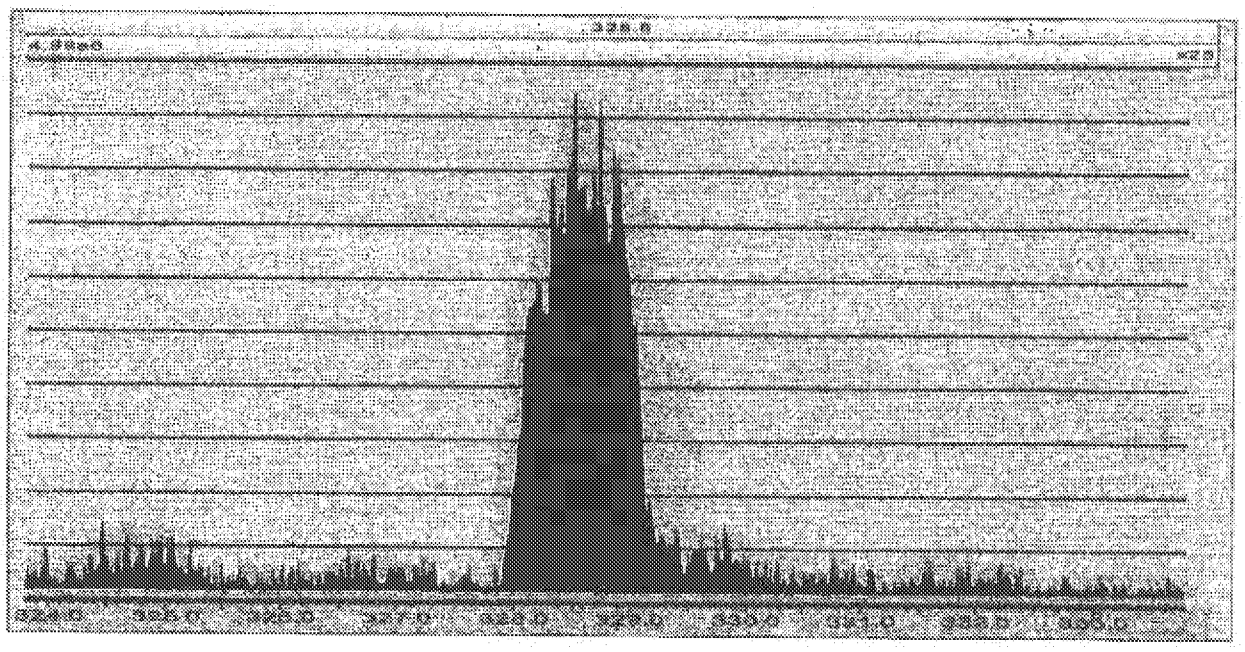
$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS#VBA453

Printed: Monday, February 12, 2018 09:32:00 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
MS1 Scan	323.60	333.60	

Source (ES-)	Settings	Readbacks
Capillary (kV)	0.50	0.53
Cone (V)	10.00	-21.06
Extractor (V)	3.00	-10.81
Source Temperature (°C)	120	117
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	50	51
Desolvation Gas Flow (L/Hr)	800	791
Collision Gas Flow (mL/Min)	0.15	0.04

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	7.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

Thaneesh P.
02/12/18

ED_002011_00000028-00492

File: C:\MassLynx\6321.PRO\ACQUDB\HFPOMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Monday, February 12, 2018 09:32:00 Mountain Standard Time

Multiplier	523.81
Active Reservoir	A

Pressure Gauges

Collision Cell Pressure (mbar)	7.830201e-005

Instrument Configuration

Automatic Mode

MS Inter-scan delay (secs)	0.005	
Polarity/Mode switch Inter-scan delay (secs)		0.020
Enhanced Inter-scan delay (secs)		0.020

Inter-channel delay - See Tables

MS 1 Delay Table:

R	delay
<= 0.500	0.005
<= 2.000	0.008
<= 4.000	0.010
<= 11.000	0.012
> 11.000	0.014

MS 2 Delay Table:

R	delay
<= 6.000	0.005
<= 25.000	0.006
> 25.000	0.007

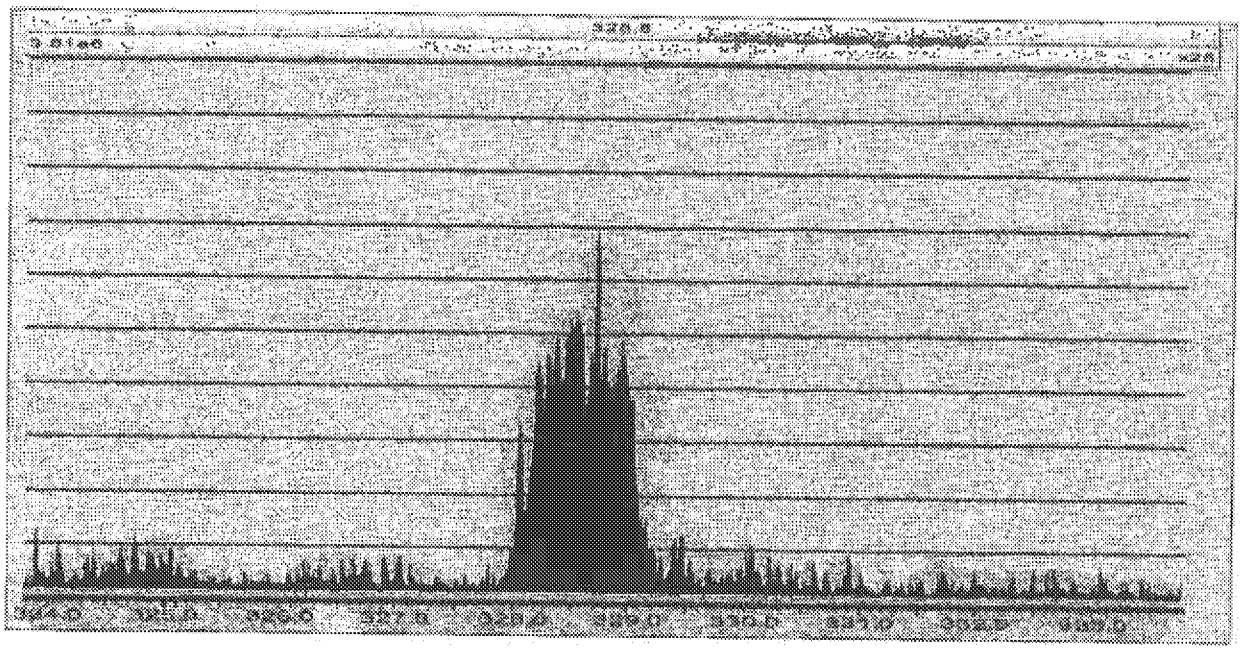
Thaneesh P.
02/13/18

ED_002011_00000028-00493

File: C:\MassLynx\6321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS#VBA453

Printed: Monday, February 12, 2018 10:17:43 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
MS1 Scan	323.60	333.60	

Source (ES-)	Settings	Readbacks
Capillary (kV)	0.50	0.53
Cone (V)	10.00	-21.06
Extractor (V)	3.00	-10.61
Source Temperature (°C)	120	120
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	50	49
Desolvation Gas Flow (L/Hr)	800	792
Collision Gas Flow (mL/Min)	0.15	0.04

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	7.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

Thaneesh P.
02/16/18

ED_002011_00000028-00494

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS#VBA463

Printed: Monday, February 12, 2018 10:17:43 Mountain Standard Time

Multiplier	523.81
Active Reservoir	A

Pressure Gauges

Collision Cell Pressure (mbar)	7.630201e-005

Instrument Configuration

Automatic Mode

MS Inter-scan delay (secs)	0.005	
Polarity/Mode switch Inter-scan delay (secs)		0.020
Enhanced Inter-scan delay (secs)		0.020

Inter-channel delay - See Tables

MS 1 Delay Table:

R	delay
<= 0.500	0.006
<= 2.000	0.008
<= 4.000	0.010
<= 11.000	0.012
> 11.000	0.014

MS 2 Delay Table:

R	delay
<= 8.000	0.005
<= 26.000	0.006
> 25.000	0.007

Thaveesin P. 02/16/18

File: c:\masslynx\8321.pro\aoqudb\hfpo.exp

Printed: Monday, February 12, 2018 14:22:03 Mountain Standard Time

Creation Time	Fri 18 Nov 2016 09:06:40
Instrument Identifier	XEVO-TQMS#VBA453
Version Number	1.0
Duration (min)	2.0
Calibration Filename	C:\MassLynx\IntelliStart\Results\Unit Mass Resolution\Calibration_20100811_2.cal
Solvent Delay Divert Valve Enabled	0
Number Of Functions	1

Function 1 : MRM of 2 mass pairs, Time 0.00 to 2.00, ES-

Type	MRM
Ion Mode	ES-
Inter Channel Delay (sec)	-1.000
InterScan Time (sec)	-1.000
Span (Da)	0.5
Start Time (min)	0.0
End Time (min)	2.0

Ch	Pmt(Da)	Dau(Da)	Dwell(s)	Cone(V)	Coll(eV)	Delay(s)	Compound
1	328.80	284.80	0.400	10.00	7.00	-1.000	HFPO
2	331.80	286.80	0.400	10.00	7.00	-1.000	HFPO IS

Thermogen P.

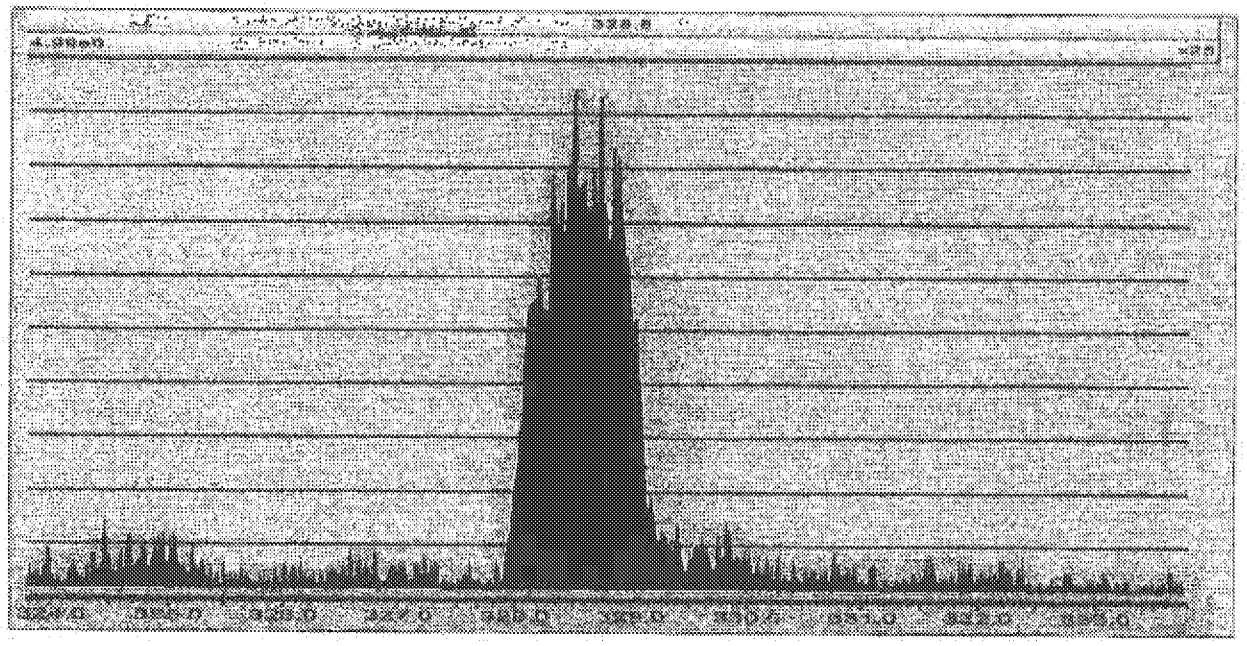
02/13/18

Waters Xevo TQ MS Detector Tune Parameters - MassLynx 4.1 SCN 843

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Monday, February 12, 2018 09:32:00 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
MS1 Scan	323.80	333.80	

Source (ES-)	Settings	Readbacks
Capillary (kV)	0.50	0.53
Cone (V)	10.00	-21.06
Extractor (V)	3.00	-10.61
Source Temperature (°C)	120	117
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	50	51
Desolvation Gas Flow (L/Hr)	800	791
Collision Gas Flow (mL/Min)	0.15	0.04

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	7.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

Phuiya
02/14/18

File: C:\MassLynx\6321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS\VBA463

Printed: Monday, February 12, 2018 09:32:00 Mountain Standard Time

Multiplier	623.81
Active Reservoir	A

Pressure Gauges

Collision Cell Pressure (mbar)	7.830201e-005

Instrument Configuration

Automatic Mode

MS Inter-scan delay (secs)	0.005	
Polarity/Mode switch Inter-scan delay (secs)		0.020
Enhanced Inter-scan delay (secs)		0.020

Inter-channel delay - See Tables

MS 1 Delay Table:

R	delay
<= 0.500	0.005
<= 2.000	0.008
<= 4.000	0.010
<= 11.000	0.012
> 11.000	0.014

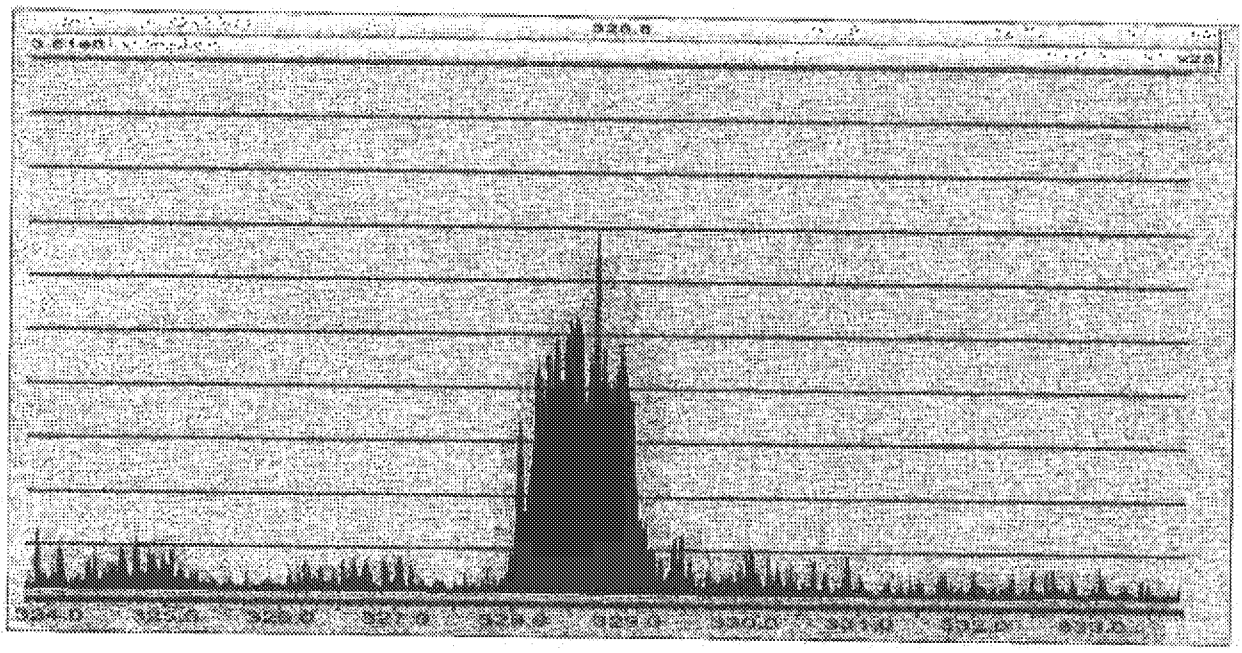
MS 2 Delay Table:

R	delay
<= 6.000	0.005
<= 26.000	0.006
> 26.000	0.007

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.lpr

Instrument: XEVO-TQMS/VBA453

Printed: Monday, February 12, 2018 10:17:43 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
MS1 Scan	323.60	333.60	

Source (ES-)	Settings	Readbacks
Capillary (kV)	0.50	0.53
Cone (V)	10.00	-21.06
Extractor (V)	3.00	-10.61
Source Temperature (°C)	120	120
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	50	49
Desolvation Gas Flow (L/Hr)	800	762
Collision Gas Flow (mL/Min)	0.15	0.04

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	7.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

Photocopy 02/14/18

ED_002011_00000028-00499

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS#VBA453

Printed: Monday, February 12, 2018 10:17:43 Mountain Standard Time

Multiplier	523.81
Active Reservoir	A

Pressure Gauges

Collision Cell Pressure (mbar)	7.830201e-005

Instrument Configuration

Automatic Mode

MS Inter-scan delay (secs)	0.005	
Polarity/Mode switch inter-scan delay (secs)		0.020
Enhanced Inter-scan delay (secs)		0.020

Inter-channel delay - See Tables

MS 1 Delay Table:

R	delay
<= 0.500	0.006
<= 2.000	0.008
<= 4.000	0.010
<= 11.000	0.012
> 11.000	0.014

MS 2 Delay Table:

R	delay
<= 6.000	0.005
<= 26.000	0.006
> 26.000	0.007

File: c:\masslynx\8321.pro\acqudb\hfpo.exp

Printed: Monday, February 12, 2018 14:22:03 Mountain Standard Time

Creation Time	Fri 18 Nov 2016 09:08:40
Instrument Identifier	XEVO-TQMS#VBA453
Version Number	1.0
Duration (min)	2.0
Calibration Filename	C:\MassLynx\IntelliStart\Results\Unit Mass Resolution\Calibration_20100811_2.cal
Solvent Delay Divert Valve Enabled	0
Number Of Functions	1

Function 1 : MRM of 2 mass pairs, Time 0.00 to 2.00, ES-

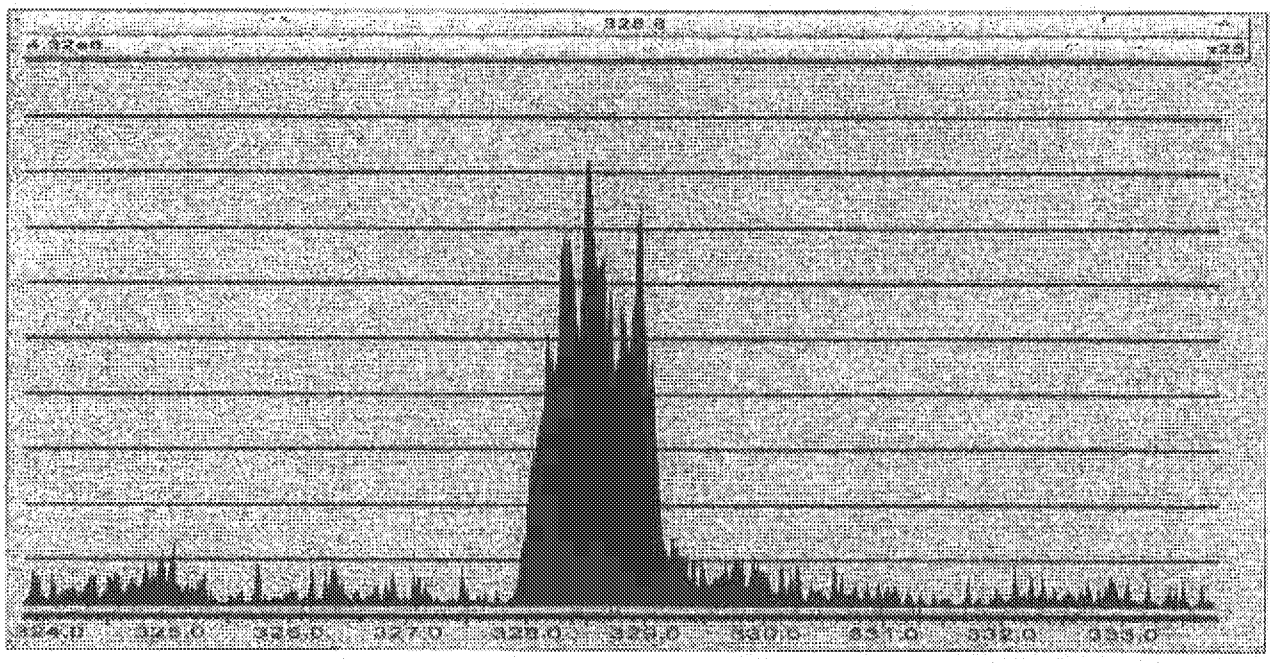
Type	MRM
Ion Mode	ES-
Inter Channel Delay (sec)	~1.000
InterScan Time (sec)	~1.000
Span (Da)	0.5
Start Time (min)	0.0
End Time (min)	2.0

Ch	Prnt(Da)	Dau(Da)	Dwell(s)	Cone(V)	Coll(eV)	Delay(s)	Compound
1	328.80	284.80	0.400	10.00	7.00	~1.000	HFPO
2	331.80	286.80	0.400	10.00	7.00	~1.000	HFPO IS

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Tuesday, February 13, 2018 07:29:51 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
MS1 Scan	323.80	333.80	

Source (ES-)	Settings	Readbacks
Capillary (kV)	0.50	0.53
Cone (V)	10.00	-21.06
Extractor (V)	3.00	-10.61
Source Temperature (°C)	120	120
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	50	51
Desolvation Gas Flow (L/Hr)	800	792
Collision Gas Flow (mL/Min)	0.15	0.04

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	7.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

File: C:\MassLynx\6321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS\VBA453

Printed: Tuesday, February 13, 2018 07:29:51 Mountain Standard Time

Multiplier	523.81
Active Reservoir	A

Pressure Gauges

Collision Cell Pressure (mbar)	7.830201e-005

Instrument Configuration

Automatic Mode

MS Inter-scan delay (secs)	0.005	
Polarity/Mode switch inter-scan delay (secs)		0.020
Enhanced inter-scan delay (secs)		0.020

Inter-channel delay - See Tables

MS 1 Delay Table:

R	delay
<= 0.500	0.005
<= 2.000	0.008
<= 4.000	0.010
<= 11.000	0.012
> 11.000	0.014

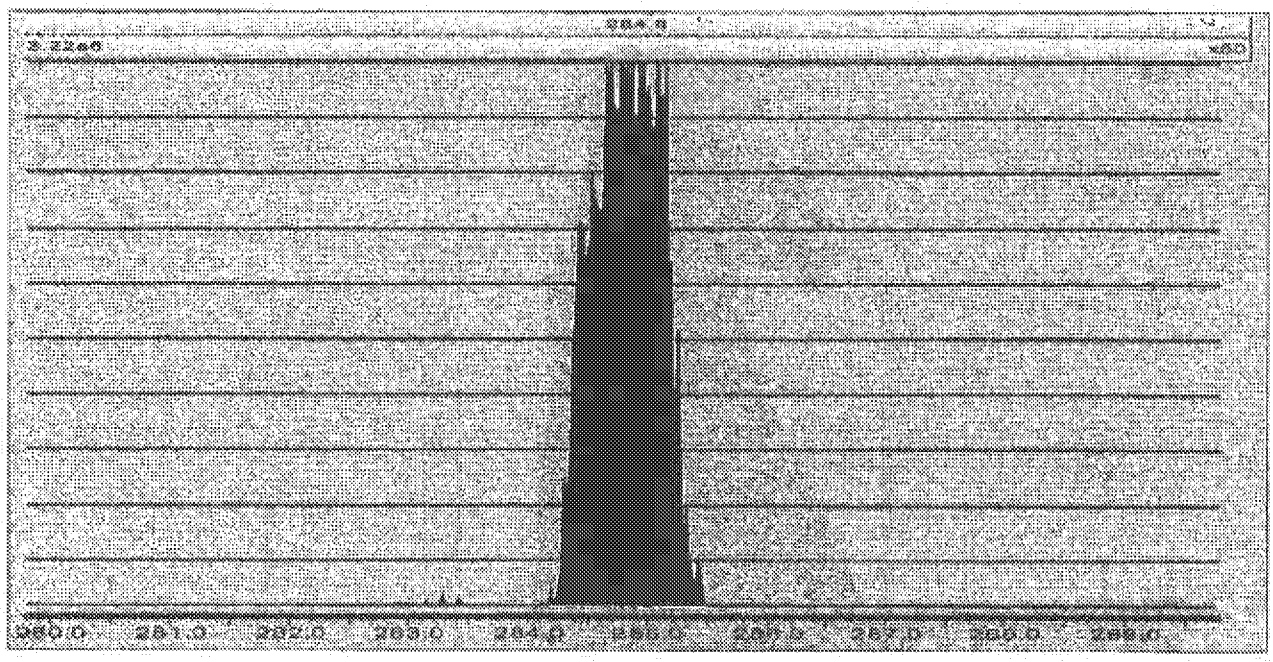
MS 2 Delay Table:

R	delay
<= 8.000	0.005
<= 26.000	0.005
> 25.000	0.007

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS#VBA463

Printed: Tuesday, February 13, 2018 07:31:02 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
Daughter Scan	279.80	269.80	328.80

Source (ES-)	Settings	Readbacks
Capillary (kV)	0.50	0.52
Cone (V)	10.00	-21.06
Extractor (V)	3.00	-10.61
Source Temperature (°C)	120	120
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	50	50
Desolvation Gas Flow (L/Hr)	800	798
Collision Gas Flow (mL/Min)	0.15	0.14

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	7.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS#VBA453

Printed: Tuesday, February 13, 2018 07:31:02 Mountain Standard Time

Multiplier	523.81
Active Reservoir	A

Pressure Gauges

Collision Cell Pressure (mbar)	1.258572e-003

Instrument Configuration

Automatic Mode

MS Inter-scan delay (secs)	0.005	
Polarity/Mode switch Inter-scan delay (secs)		0.020
Enhanced Inter-scan delay (secs)		0.020

Inter-channel delay - See Tables

MS 1 Delay Table:

	R	delay
<=	0.500	0.005
<=	2.000	0.008
<=	4.000	0.010
<=	11.000	0.012
>	11.000	0.014

MS 2 Delay Table:

	R	delay
<=	8.000	0.005
<=	25.000	0.005
>	25.000	0.007

Phuchga
04/12/18

File: c:\masslynx\6321.pro\acqudb\rfpo.exp

Printed: Tuesday, February 13, 2018 07:31:28 Mountain Standard Time

Creation Time	Fri 18 Nov 2016 09:08:40
Instrument Identifier	XEVO-TQMS#VBA463
Version Number	1.0
Duration (min)	2.0
Calibration Filename	C:\MassLynx\IntelliStart\Results\Unit Mass Resolution\Calibration_20100811_2.cal
Solvent Delay Divert Valve Enabled	0
Number Of Functions	1

Function 1 : MRM of 2 mass pairs, Time 0.00 to 2.00, ES-

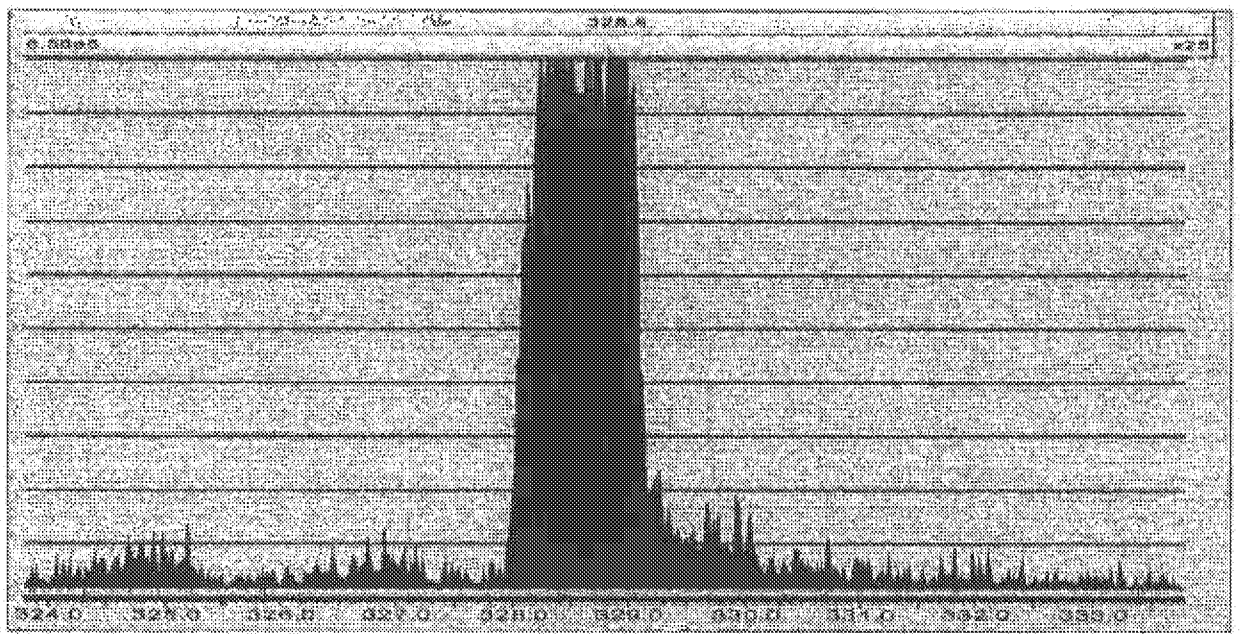
Type	MRM
Ion Mode	ES-
Inter Channel Delay (sec)	-1.000
InterScan Time (sec)	-1.000
Span (Da)	0.5
Start Time (min)	0.0
End Time (min)	2.0

Ch	Prnt(Da)	Dau(Da)	Dwell(s)	Cone(V)	Coll(eV)	Delay(s)	Compound
1	328.80	284.80	0.400	10.00	7.00	-1.000	HMPO
2	331.80	286.80	0.400	10.00	7.00	-1.000	HMPO IS

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS\VBA453

Printed: Wednesday, February 14, 2018 07:31:47 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
MS1 Scan	323.80	333.80	

Source (ES-)	Settings	Readbacks
Capillary (kV)	0.50	0.54
Cone (V)	10.00	-21.06
Extractor (V)	3.00	-10.61
Source Temperature (°C)	120	120
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	50	50
Desolvation Gas Flow (L/Hr)	800	791
Collision Gas Flow (mL/Min)	0.15	0.04

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	7.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

Purine calcs

ED_002011_00000028-00507

File: C:\MassLynx\8321.PROVACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS#VBA453

Printed: Wednesday, February 14, 2018 07:31:47 Mountain Standard Time

Multiplier	524.05
Active Reservoir	A

Pressure Gauges

Collision Cell Pressure (mbar)	7.830201e-005

Instrument Configuration

Automatic Mode

MS Inter-scan delay (secs)	0.005	
Polarity/Mode switch Inter-scan delay (secs)		0.020
Enhanced Inter-scan delay (secs)		0.020

Inter-channel delay - See Tables

MS 1 Delay Table:

R	delay
<= 0.500	0.005
<= 2.000	0.006
<= 4.000	0.010
<= 11.000	0.012
> 11.000	0.014

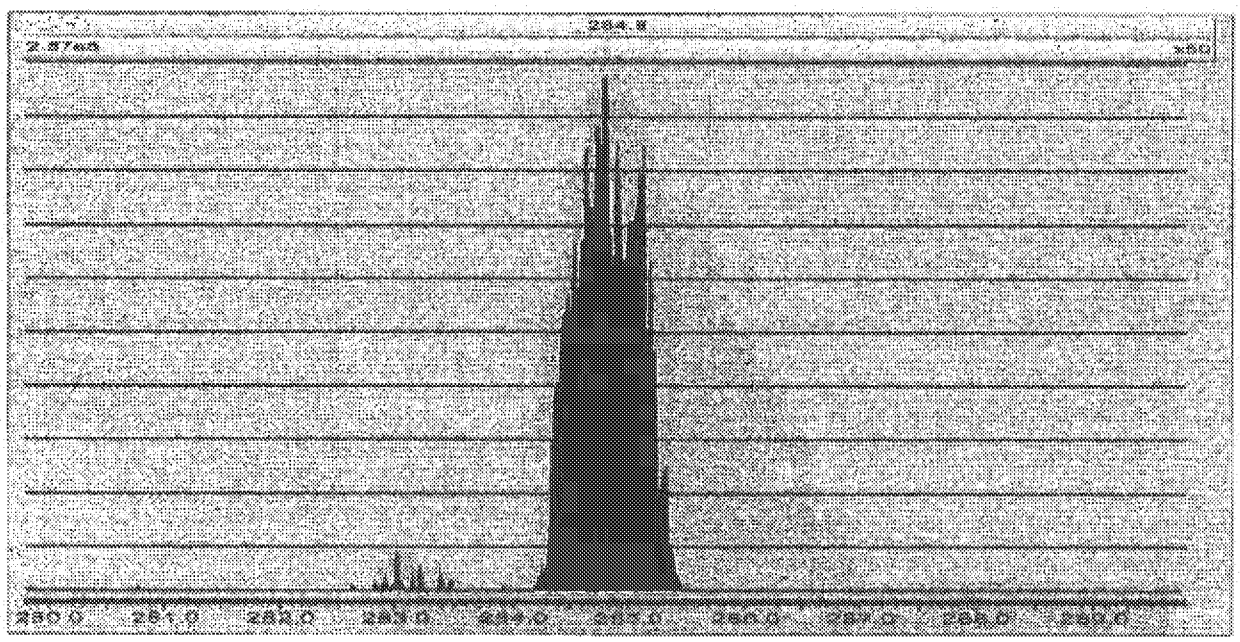
MS 2 Delay Table:

R	delay
<= 6.000	0.005
<= 25.000	0.005
> 25.000	0.007

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS#VBA453

Printed: Wednesday, February 14, 2018 07:32:29 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
Daughter Scan	279.80	289.80	328.80

Source (ES-)	Settings	Readbacks
Capillary (kV)	0.50	0.53
Cone (V)	10.00	-21.06
Extractor (V)	3.00	-10.61
Source Temperature (°C)	120	120
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	50	49
Desolvation Gas Flow (L/Hr)	800	795
Collision Gas Flow (mL/Min)	0.15	0.14

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	7.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

ED_002011_00000028-00509

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS\VBA453

Printed: Wednesday, February 14, 2018 07:32:29 Mountain Standard Time

Multiplier	523.81
Active Reservoir	A

Pressure Gauges

Collision Cell Pressure (mbar)	1.098453e-003

Instrument Configuration

Automatic Mode

MS Inter-scan delay (secs)	0.005	
Polarity/Mode switch Inter-scan delay (secs)		0.020
Enhanced Inter-scan delay (secs)		0.020

Inter-channel delay - See Tables

MS 1 Delay Table:

R	delay
<= 0.500	0.005
<= 2.000	0.008
<= 4.000	0.010
<= 11.000	0.012
> 11.000	0.014

MS 2 Delay Table:

R	delay
<= 8.000	0.005
<= 25.000	0.005
> 25.000	0.007

File: c:\masslynx\8321.pro\acqudb\hfpo.exp

Printed: Tuesday, February 13, 2018 07:31:28 Mountain Standard Time

Creation Time	Fri 18 Nov 2016 09:08:40
Instrument Identifier	XEVO-TQMS#VBA463
Version Number	1.0
Duration (min)	2.0
Calibration Filename	C:\MassLynx\IntelliStart\Results\Unit Mass Resolution\Calibration_20100811_2.cal
Solvent Delay Divert Valve Enabled	0
Number Of Functions	1

Function 1 : MRM of 2 mass pairs, Time 0.00 to 2.00, ES-

Type	MRM
Ion Mode	ES-
Inter Channel Delay (sec)	-1.000
InterScan Time (sec)	-1.000
Span (Da)	0.5
Start Time (min)	0.0
End Time (min)	2.0

Ch	Prnt(Da)	Dau(Da)	Dwell(s)	Cone(V)	Coll(eV)	Delay(s)	Compound
1	328.80	284.80	0.400	10.00	7.00	-1.000	HFPO
2	331.80	286.80	0.400	10.00	7.00	-1.000	HFPO IS

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-404518/1-A

Matrix: Water | Lab File ID: hfpo718B12064.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/09/2018 20:54

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 13:42

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404641 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	74		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12064.d
Lims ID: MB 280-404518/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Feb-2018 13:42:13 ALS Bottle#: 36 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404518/1-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:54

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	549109	7.35	1069	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		549109	10.0	1069	

Report Date: 12-Feb-2018 14:31:22 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12064.d

Injection Date: 12-Feb-2018 13:42:13 Instrument ID: LC_LCMS7

Lims ID: MB 280-404518/1-A

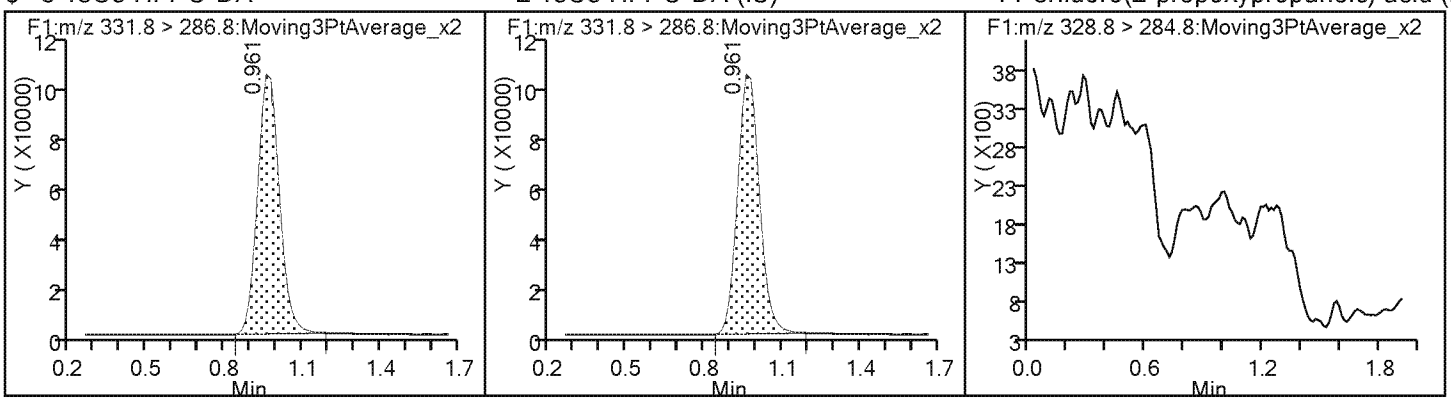
Client ID:

Operator ID: JBH ALS Bottle#: 36 Worklist Smp#: 31

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12064.d
Lims ID: MB 280-404518/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Feb-2018 13:42:13 ALS Bottle#: 36 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404518/1-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.35	73.55

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-404551/1-A

Matrix: Water | Lab File ID: hfpo718B12082.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 14:41

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	72		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12082.d
Lims ID: MB 280-404551/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Feb-2018 14:41:02 ALS Bottle#: 4 Worklist Smp#: 49
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404551/1-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:39 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:51:20

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.988	1.045	-0.057	1.000	540825	7.24	1311	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.988	1.045	-0.057		540825	10.0	1311	

Report Date: 12-Feb-2018 14:51:40 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12082.d

Injection Date: 12-Feb-2018 14:41:02 Instrument ID: LC_LCMS7

Lims ID: MB 280-404551/1-A

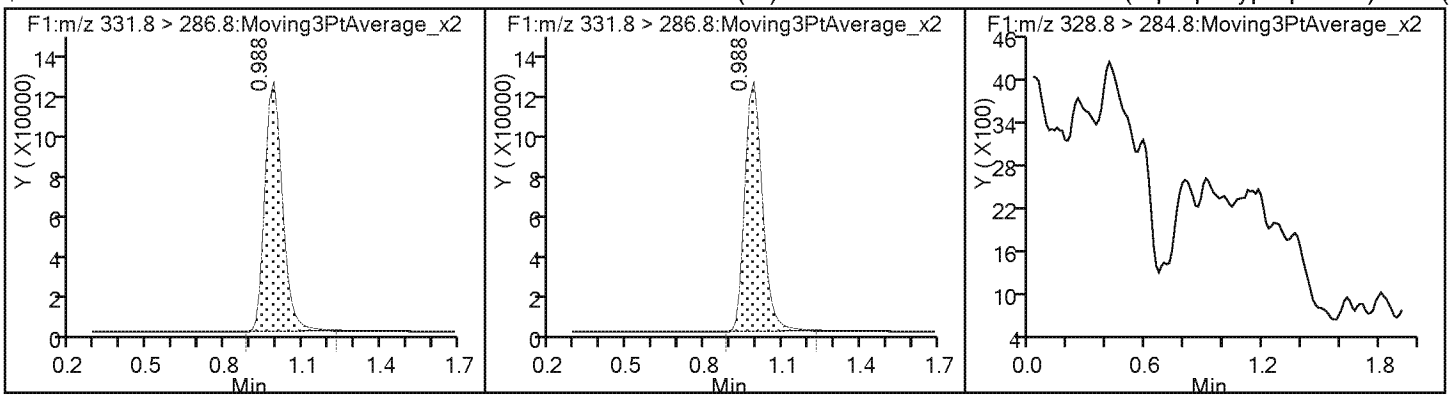
Client ID:

Operator ID: JBH ALS Bottle#: 4 Worklist Smp#: 49

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12082.d
Lims ID: MB 280-404551/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Feb-2018 14:41:02 ALS Bottle#: 4 Worklist Smp#: 49
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404551/1-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:39 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:51:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.24	72.44

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-404556/1-A

Matrix: Water | Lab File ID: hfpo718B12107.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/11/2018 19:22

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 16:02

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404643 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	77		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12107.d
Lims ID: MB 280-404556/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Feb-2018 16:02:08 ALS Bottle#: 26 Worklist Smp#: 74
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404556/1-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:33 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:15

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	574035	7.69	1344	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		574035	10.0	1344	

Report Date: 13-Feb-2018 07:56:34 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12107.d

Injection Date: 12-Feb-2018 16:02:08 Instrument ID: LC_LCMS7

Lims ID: MB 280-404556/1-A

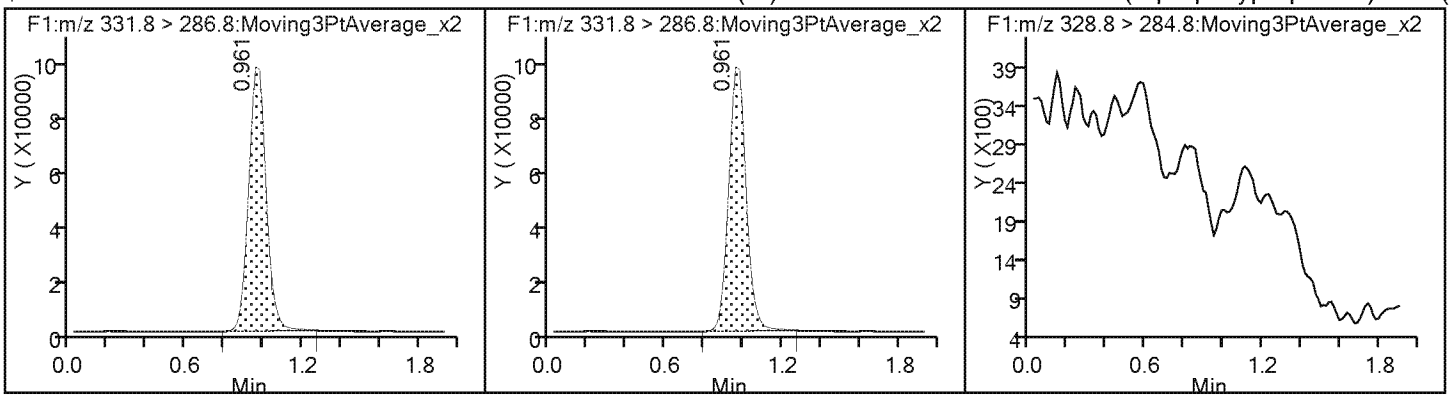
Client ID:

Operator ID: JBH ALS Bottle#: 26 Worklist Smp#: 74

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12107.d
Lims ID: MB 280-404556/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Feb-2018 16:02:08 ALS Bottle#: 26 Worklist Smp#: 74
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404556/1-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:33 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.69	76.89

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-404557/1-A

Matrix: Water | Lab File ID: hfpo718B12136.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/11/2018 19:44

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 17:36

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404644 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	81		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12136.d
Lims ID: MB 280-404557/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Feb-2018 17:36:55 ALS Bottle#: 15 Worklist Smp#: 103
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404557/1-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:49 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:51:58

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	608119	8.15	1660	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		608119	10.0	1660	

Report Date: 13-Feb-2018 07:56:50 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12136.d

Injection Date: 12-Feb-2018 17:36:55 Instrument ID: LC_LCMS7

Lims ID: MB 280-404557/1-A

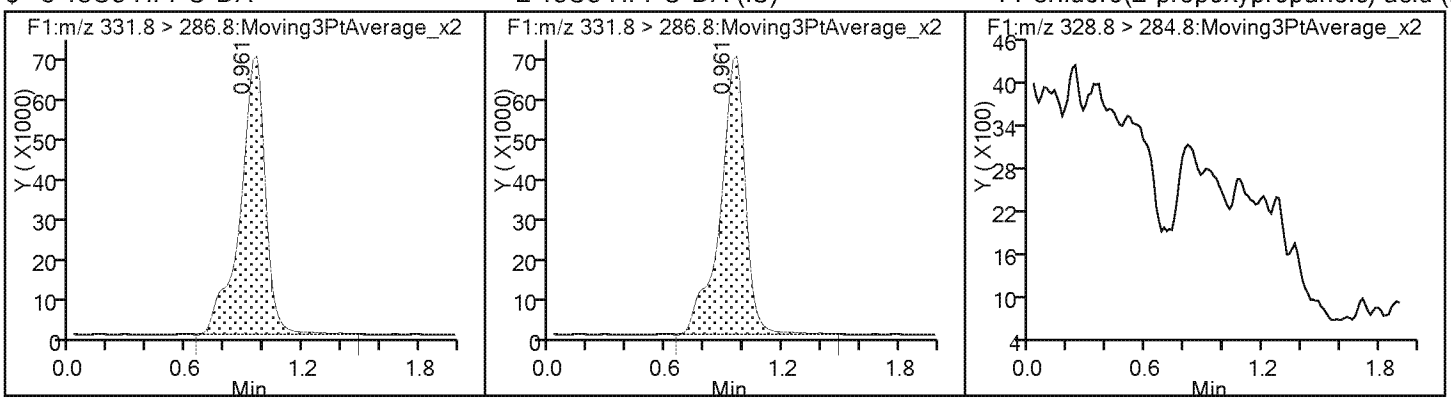
Client ID:

Operator ID: JBH ALS Bottle#: 15 Worklist Smp#: 103

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12136.d
Lims ID: MB 280-404557/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Feb-2018 17:36:55 ALS Bottle#: 15 Worklist Smp#: 103
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404557/1-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:49 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:51:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.15	81.45

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-404582/1-A

Matrix: Water | Lab File ID: hfpo718B13083.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/12/2018 08:23

Sample wt/vol: 250(mL) | Date Analyzed: 02/13/2018 12:26

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404879 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	108		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13083.d
Lims ID: MB 280-404582/1-A
Client ID:
Sample Type: MB
Inject. Date: 13-Feb-2018 12:26:22 ALS Bottle#: 3 Worklist Smp#: 62
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404582/1-A
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:20

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.002	1.045	-0.043	1.000	806794	10.8	1652	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.002	1.045	-0.043		806794	10.0	1652	

Report Date: 14-Feb-2018 07:00:31 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13083.d

Injection Date: 13-Feb-2018 12:26:22 Instrument ID: LC_LCMS7

Lims ID: MB 280-404582/1-A

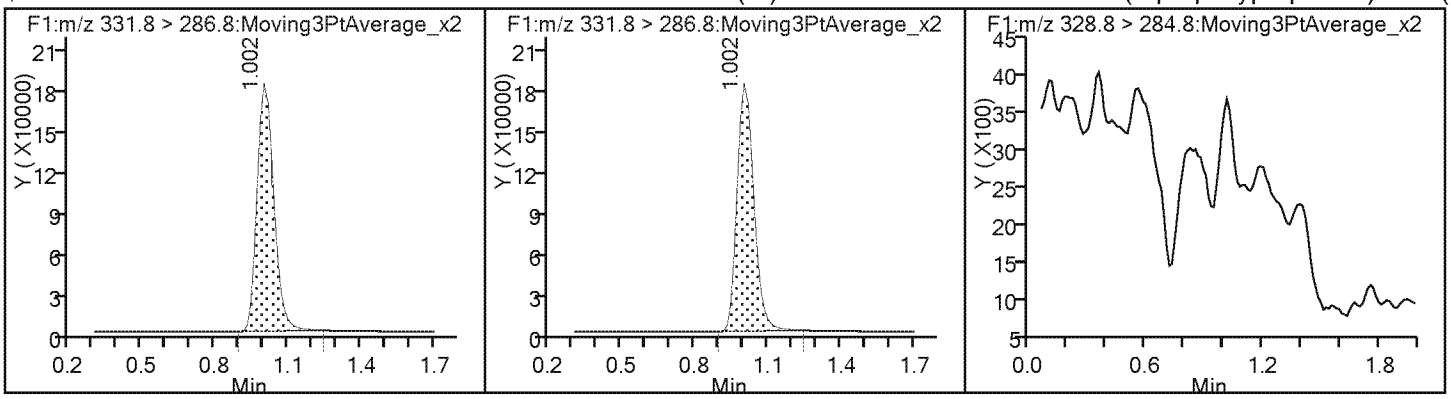
Client ID:

Operator ID: JBH ALS Bottle#: 3 Worklist Smp#: 62

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13083.d
Lims ID: MB 280-404582/1-A
Client ID:
Sample Type: MB
Inject. Date: 13-Feb-2018 12:26:22 ALS Bottle#: 3 Worklist Smp#: 62
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404582/1-A
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.8	108.06

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-404785/1-A

Matrix: Water | Lab File ID: hfpo718B14008.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 250(mL) | Date Analyzed: 02/14/2018 08:03

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	83		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14008.d
Lims ID: MB 280-404785/1-A
Client ID:
Sample Type: MB
Inject. Date: 14-Feb-2018 08:03:46 ALS Bottle#: 15 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404785/1-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:31

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	619126	8.29	1074	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		619126	10.0	1074	

Report Date: 15-Feb-2018 06:58:46 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14008.d

Injection Date: 14-Feb-2018 08:03:46 Instrument ID: LC_LCMS7

Lims ID: MB 280-404785/1-A

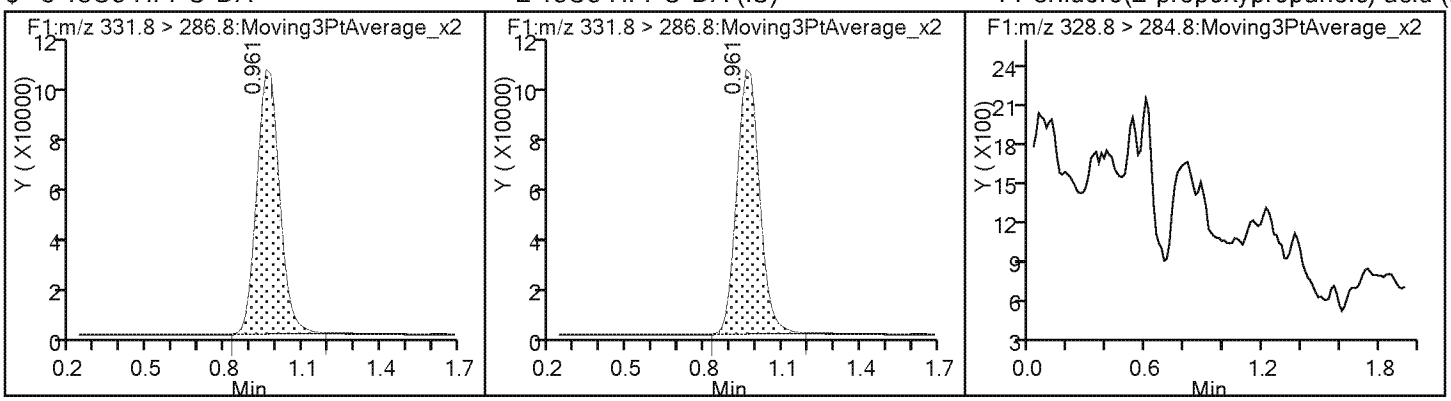
Client ID:

Operator ID: JBH ALS Bottle#: 15 Worklist Smp#: 8

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14008.d
Lims ID: MB 280-404785/1-A
Client ID:
Sample Type: MB
Inject. Date: 14-Feb-2018 08:03:46 ALS Bottle#: 15 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404785/1-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.29	82.93

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-404518/2-A

Matrix: Water | Lab File ID: hfpo718B12065.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/09/2018 20:54

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 13:45

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404641 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.203		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	74		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12065.d
Lims ID: LCS 280-404518/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Feb-2018 13:45:29 ALS Bottle#: 37 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404518/2-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:56

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	553166	7.41	1715	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		553166	10.0	1715	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	599626	10.2	217	

Report Date: 12-Feb-2018 14:31:23 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12065.d

Injection Date: 12-Feb-2018 13:45:29 Instrument ID: LC_LCMS7

Lims ID: LCS 280-404518/2-A

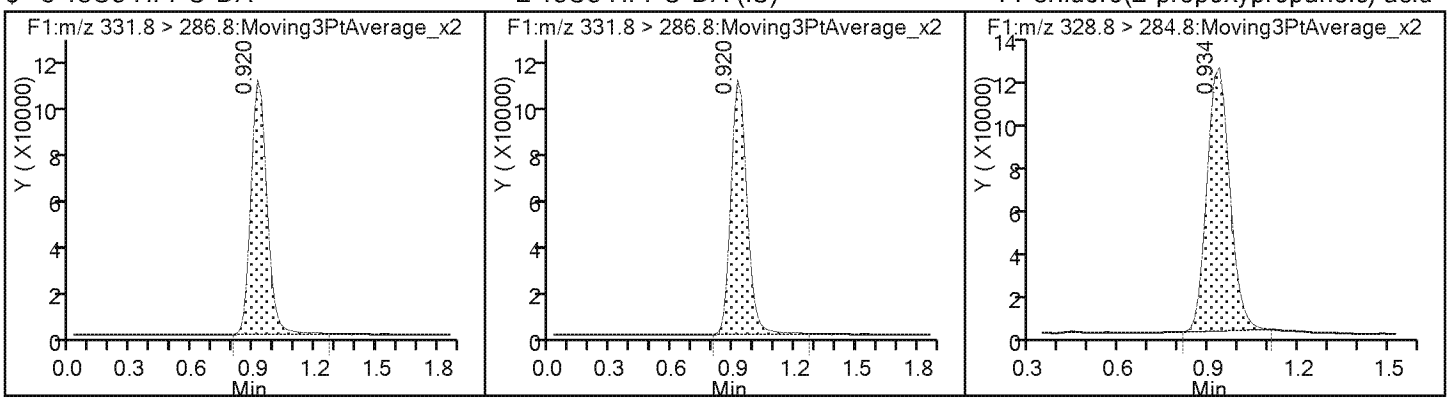
Client ID:

Operator ID: JBH ALS Bottle#: 37 Worklist Smp#: 32

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12065.d
Lims ID: LCS 280-404518/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Feb-2018 13:45:29 ALS Bottle#: 37 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404518/2-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.41	74.09

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-404551/2-A

Matrix: Water | Lab File ID: hfpo718B12083.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 14:44

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.202		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	74		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12083.d
Lims ID: LCS 280-404551/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Feb-2018 14:44:16 ALS Bottle#: 5 Worklist Smp#: 50
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404551/2-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:39 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:51:23

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	551138	7.38	1353	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		551138	10.0	1353	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	594369	10.1	192	

Report Date: 12-Feb-2018 14:51:40 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12083.d

Injection Date: 12-Feb-2018 14:44:16 Instrument ID: LC_LCMS7

Lims ID: LCS 280-404551/2-A

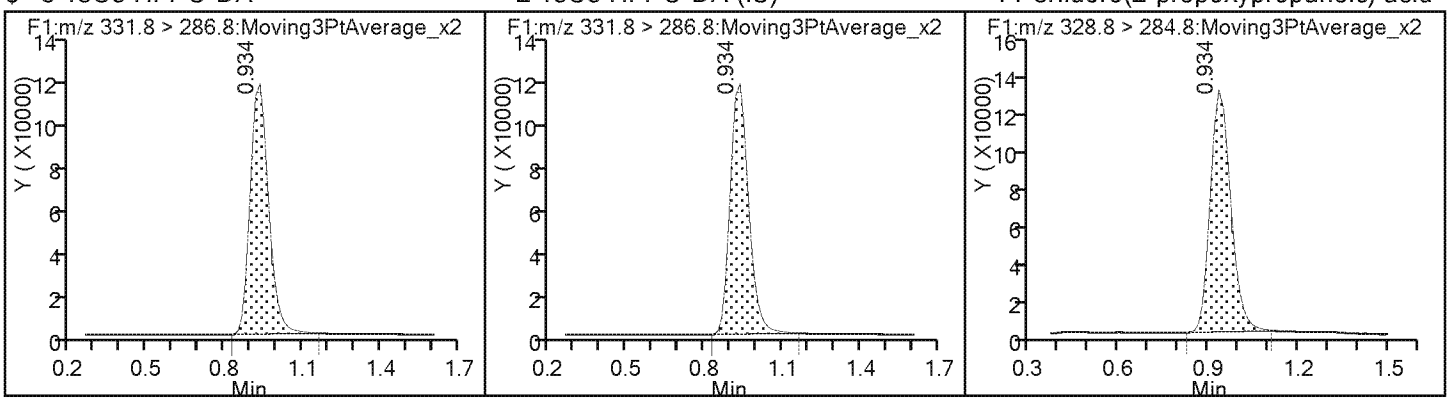
Client ID:

Operator ID: JBH ALS Bottle#: 5 Worklist Smp#: 50

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12083.d
Lims ID: LCS 280-404551/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Feb-2018 14:44:16 ALS Bottle#: 5 Worklist Smp#: 50
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404551/2-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:39 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:51:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.38	73.82

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-404556/2-A

Matrix: Water | Lab File ID: hfpo718B12108.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/11/2018 19:22

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 16:05

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404643 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.192		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	78		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12108.d
Lims ID: LCS 280-404556/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Feb-2018 16:05:24 ALS Bottle#: 27 Worklist Smp#: 75
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404556/2-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:33 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:18

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	581757	7.79	1276	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		581757	10.0	1276	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	595738	9.59	142	

Report Date: 13-Feb-2018 07:56:35 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12108.d

Injection Date: 12-Feb-2018 16:05:24 Instrument ID: LC_LCMS7

Lims ID: LCS 280-404556/2-A

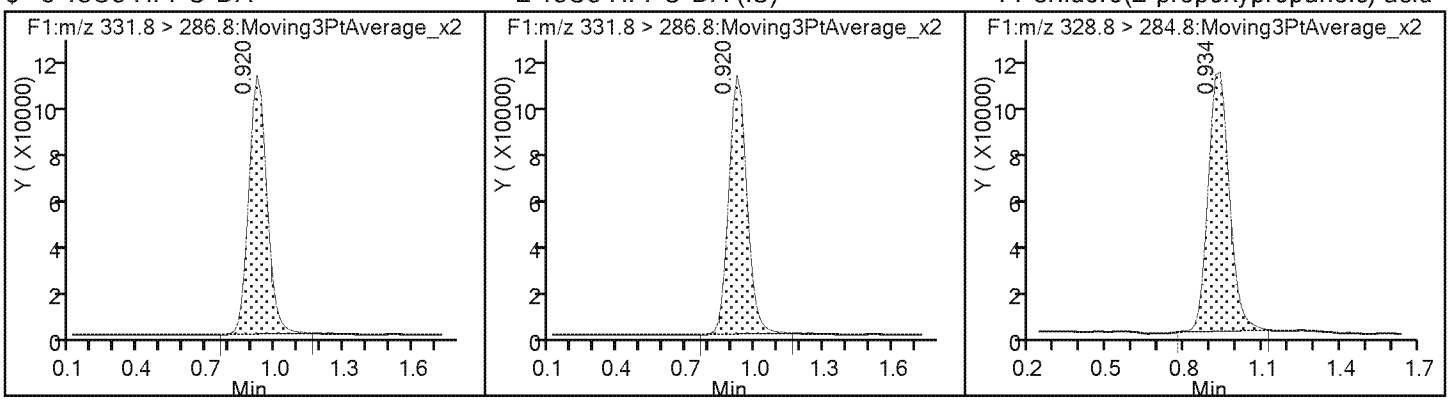
Client ID:

Operator ID: JBH ALS Bottle#: 27 Worklist Smp#: 75

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12108.d
Lims ID: LCS 280-404556/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Feb-2018 16:05:24 ALS Bottle#: 27 Worklist Smp#: 75
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404556/2-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:33 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.79	77.92

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-404557/2-A

Matrix: Water | Lab File ID: hfpo718B12137.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/11/2018 19:44

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 17:40

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404644 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.191		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	78		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12137.d
Lims ID: LCS 280-404557/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Feb-2018 17:40:09 ALS Bottle#: 16 Worklist Smp#: 104
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404557/2-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:49 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:00

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	585476	7.84	1088	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		585476	10.0	1088	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	596543	9.54	141	

Report Date: 13-Feb-2018 07:56:51 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12137.d

Injection Date: 12-Feb-2018 17:40:09 Instrument ID: LC_LCMS7

Lims ID: LCS 280-404557/2-A

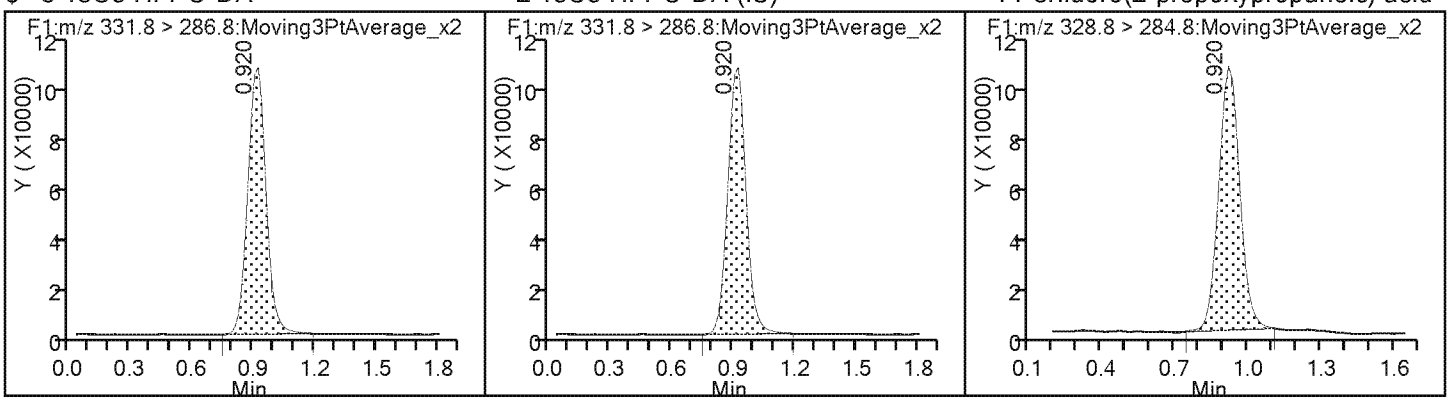
Client ID:

Operator ID: JBH ALS Bottle#: 16 Worklist Smp#: 104

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12137.d				
Lims ID:	LCS 280-404557/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	12-Feb-2018 17:40:09	ALS Bottle#:	16	Worklist Smp#:	104
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS280-404557/2-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:49	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.84	78.42

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-404582/2-A

Matrix: Water | Lab File ID: hfpo718B13084.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/12/2018 08:23

Sample wt/vol: 250(mL) | Date Analyzed: 02/13/2018 12:29

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404879 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.157		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	112		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13084.d
Lims ID: LCS 280-404582/2-A
Client ID:
Sample Type: LCS
Inject. Date: 13-Feb-2018 12:29:37 ALS Bottle#: 4 Worklist Smp#: 63
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404582/2-A
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:22

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	836720	11.2	1286	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		836720	10.0	1286	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	700024	7.83	204	

Report Date: 14-Feb-2018 07:00:33 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13084.d

Injection Date: 13-Feb-2018 12:29:37 Instrument ID: LC_LCMS7

Lims ID: LCS 280-404582/2-A

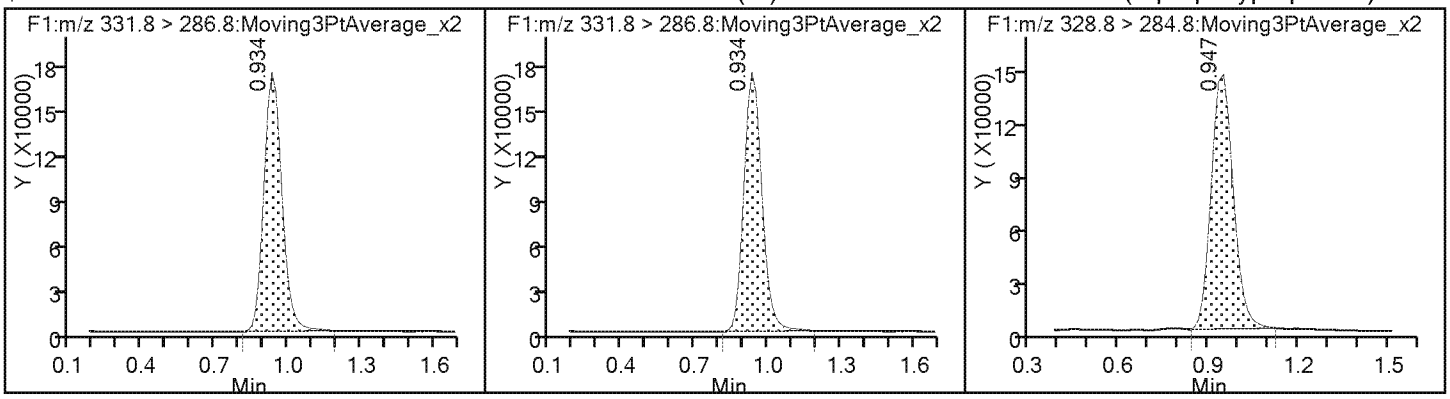
Client ID:

Operator ID: JBH ALS Bottle#: 4 Worklist Smp#: 63

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13084.d
Lims ID: LCS 280-404582/2-A
Client ID:
Sample Type: LCS
Inject. Date: 13-Feb-2018 12:29:37 ALS Bottle#: 4 Worklist Smp#: 63
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404582/2-A
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	11.2	112.07

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-404785/2-A

Matrix: Water | Lab File ID: hfpo718B14009.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 250(mL) | Date Analyzed: 02/14/2018 08:07

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.201		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	79		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14009.d
Lims ID: LCS 280-404785/2-A
Client ID:
Sample Type: LCS
Inject. Date: 14-Feb-2018 08:07:01 ALS Bottle#: 16 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404785/2-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:33

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	590182	7.90	1449	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		590182	10.0	1449	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	634139	10.1	386	

Report Date: 15-Feb-2018 06:58:46 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14009.d

Injection Date: 14-Feb-2018 08:07:01 Instrument ID: LC_LCMS7

Lims ID: LCS 280-404785/2-A

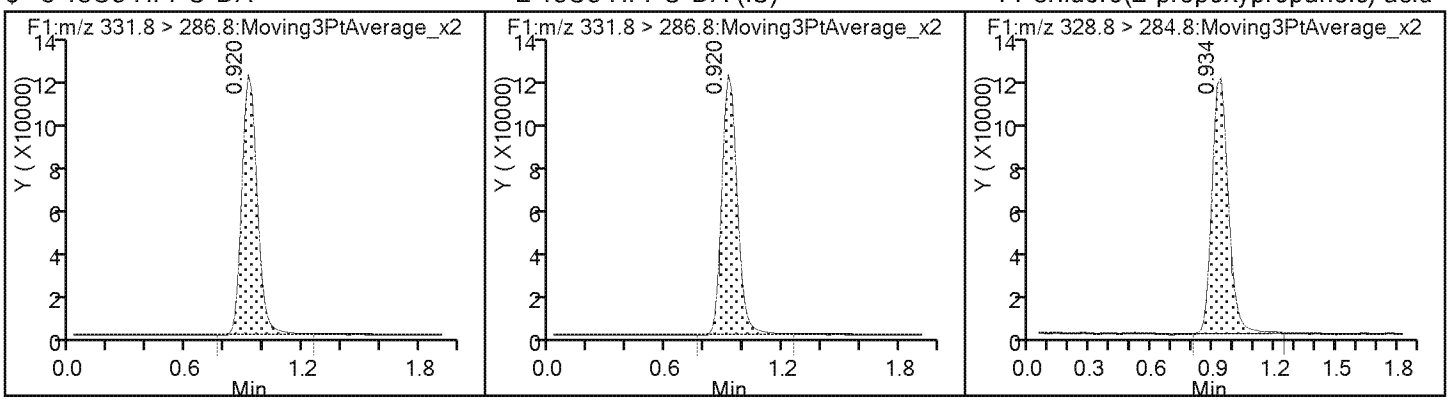
Client ID:

Operator ID: JBH ALS Bottle#: 16 Worklist Smp#: 9

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14009.d
Lims ID: LCS 280-404785/2-A
Client ID:
Sample Type: LCS
Inject. Date: 14-Feb-2018 08:07:01 ALS Bottle#: 16 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404785/2-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.90	79.05

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-404518/3-A

Matrix: Water | Lab File ID: hfpo718B12066.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/09/2018 20:54

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 13:48

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404641 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.212		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	71		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12066.d
Lims ID: LCSD 280-404518/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-Feb-2018 13:48:45 ALS Bottle#: 38 Worklist Smp#: 33
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404518/3-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:58

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	530203	7.10	1602	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		530203	10.0	1602	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	600249	10.6	199	

Report Date: 12-Feb-2018 14:31:24 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12066.d

Injection Date: 12-Feb-2018 13:48:45 Instrument ID: LC_LCMS7

Lims ID: LCSD 280-404518/3-A

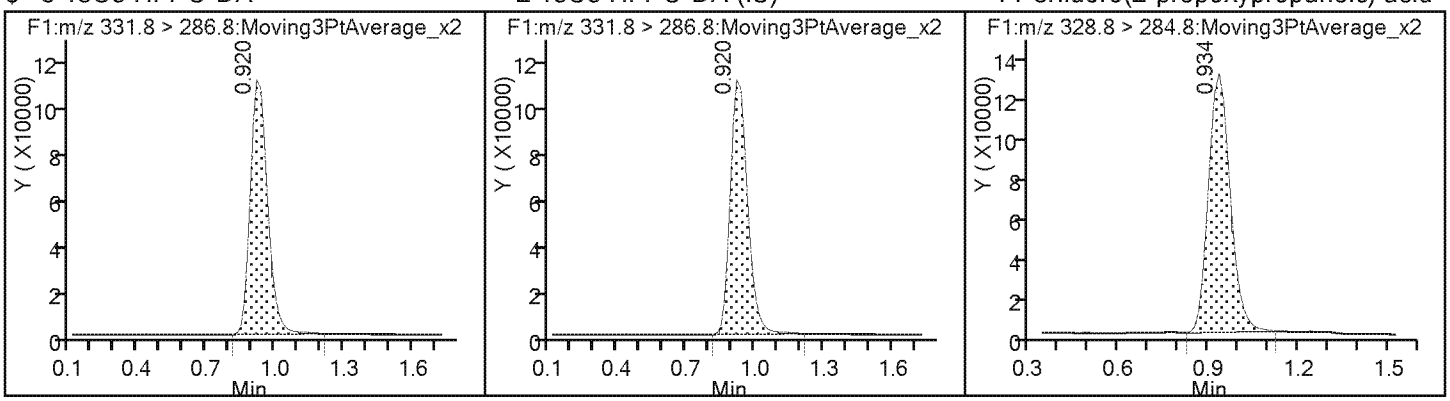
Client ID:

Operator ID: JBH ALS Bottle#: 38 Worklist Smp#: 33

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12066.d
Lims ID: LCSD 280-404518/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-Feb-2018 13:48:45 ALS Bottle#: 38 Worklist Smp#: 33
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404518/3-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.10	71.02

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-404551/4-A

Matrix: Water | Lab File ID: hfpo718B12085.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 14:50

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.192		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	79		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12085.d
Lims ID: LCSD 280-404551/4-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-Feb-2018 14:50:43 ALS Bottle#: 7 Worklist Smp#: 52
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404551/4-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:52:59 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:19

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	589156	7.89	1945	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		589156	10.0	1945	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	603835	9.60	166	

Report Date: 13-Feb-2018 07:56:19 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12085.d

Injection Date: 12-Feb-2018 14:50:43 Instrument ID: LC_LCMS7

Lims ID: LCSD 280-404551/4-A

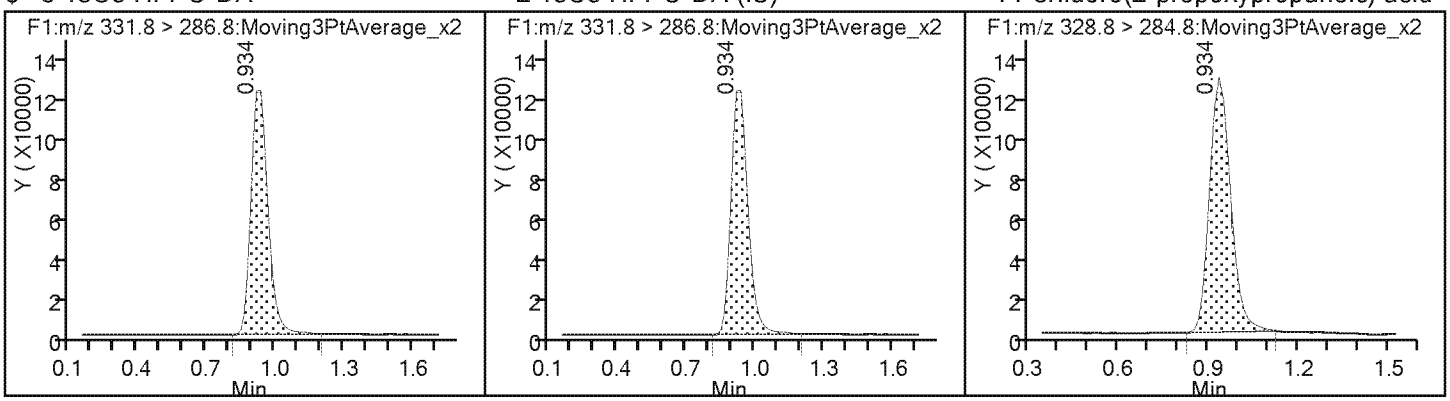
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 52

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12085.d
Lims ID: LCSD 280-404551/4-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-Feb-2018 14:50:43 ALS Bottle#: 7 Worklist Smp#: 52
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404551/4-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:52:59 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.89	78.91

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-404556/3-A

Matrix: Water | Lab File ID: hfpo718B12109.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/11/2018 19:22

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 16:08

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404643 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.202		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	75		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12109.d
Lims ID: LCSD 280-404556/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-Feb-2018 16:08:40 ALS Bottle#: 28 Worklist Smp#: 76
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404556/3-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:33 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:21

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	557765	7.47	1113	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		557765	10.0	1113	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	602476	10.1	167	

Report Date: 13-Feb-2018 07:56:35 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12109.d

Injection Date: 12-Feb-2018 16:08:40 Instrument ID: LC_LCMS7

Lims ID: LCSD 280-404556/3-A

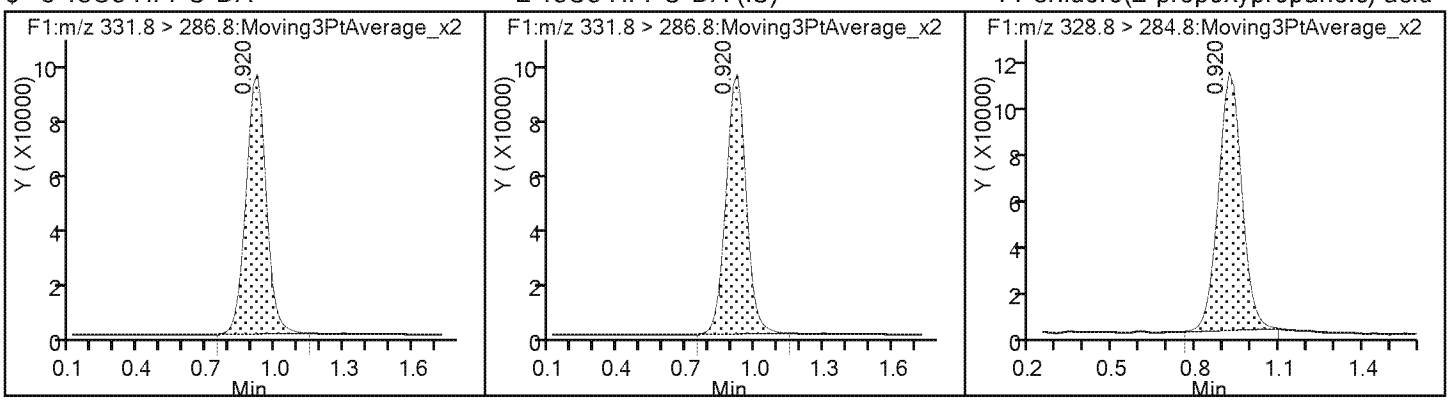
Client ID:

Operator ID: JBH ALS Bottle#: 28 Worklist Smp#: 76

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12109.d
Lims ID: LCSD 280-404556/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-Feb-2018 16:08:40 ALS Bottle#: 28 Worklist Smp#: 76
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404556/3-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:33 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.47	74.71

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-404557/3-A

Matrix: Water | Lab File ID: hfpo718B12138.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/11/2018 19:44

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 17:43

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404644 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.203		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	78		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12138.d
Lims ID: LCSD 280-404557/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-Feb-2018 17:43:24 ALS Bottle#: 17 Worklist Smp#: 105
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404557/3-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:49 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:03

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	584432	7.83	1020	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		584432	10.0	1020	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	634506	10.2	140	

Report Date: 13-Feb-2018 07:56:51 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12138.d

Injection Date: 12-Feb-2018 17:43:24 Instrument ID: LC_LCMS7

Lims ID: LCSD 280-404557/3-A

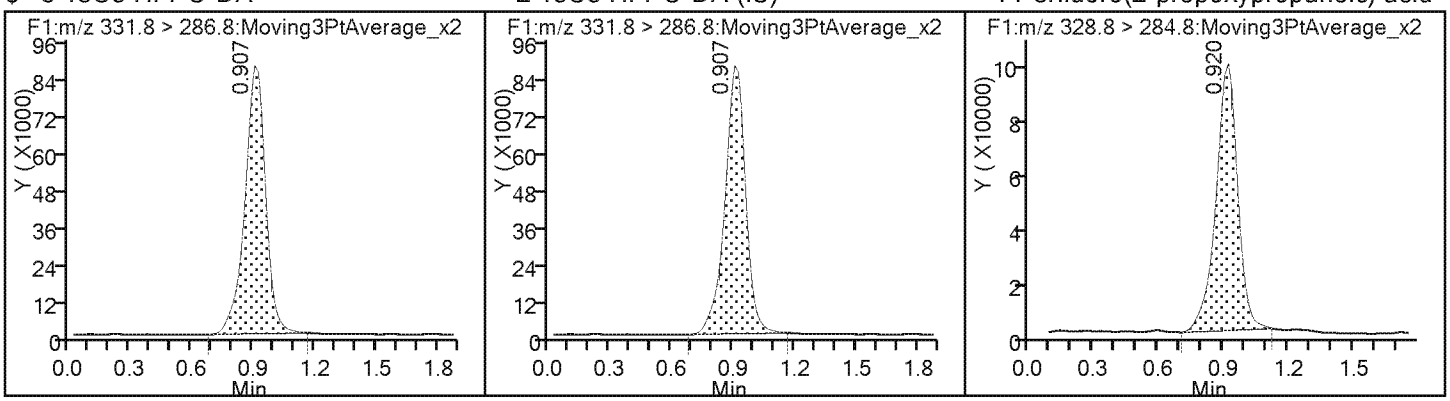
Client ID:

Operator ID: JBH ALS Bottle#: 17 Worklist Smp#: 105

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12138.d				
Lims ID:	LCSD 280-404557/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	12-Feb-2018 17:43:24	ALS Bottle#:	17	Worklist Smp#:	105
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD280-404557/3-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:49	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.83	78.28

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-404582/3-A

Matrix: Water | Lab File ID: hfpo718B13085.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/12/2018 08:23

Sample wt/vol: 250(mL) | Date Analyzed: 02/13/2018 12:32

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404879 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.157		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	112		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13085.d
Lims ID: LCSD 280-404582/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 13-Feb-2018 12:32:50 ALS Bottle#: 5 Worklist Smp#: 64
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404582/3-A
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:24

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	836498	11.2	1402	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		836498	10.0	1402	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	699516	7.83	169	

Report Date: 14-Feb-2018 07:00:33 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13085.d

Injection Date: 13-Feb-2018 12:32:50 Instrument ID: LC_LCMS7

Lims ID: LCSD 280-404582/3-A

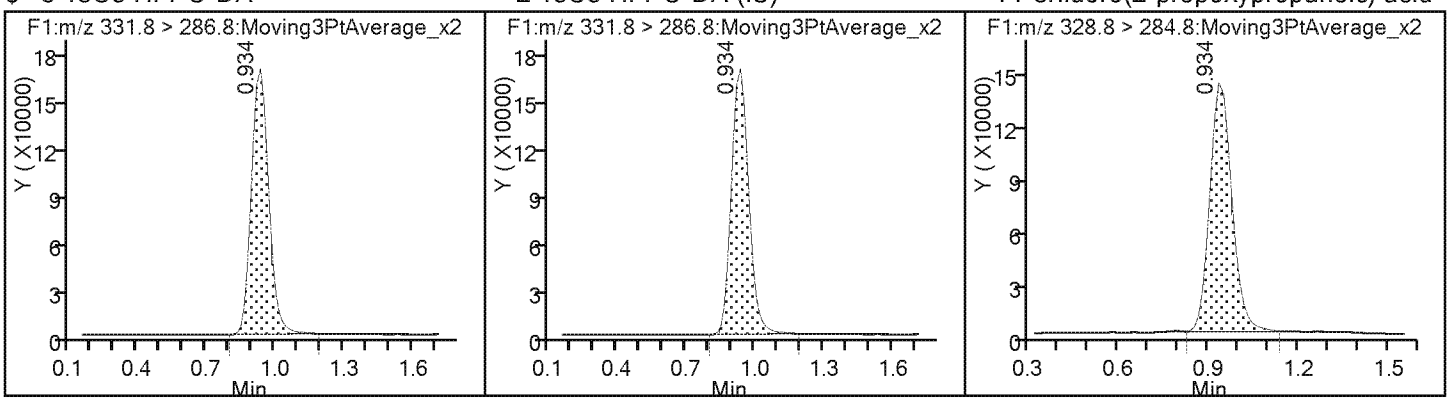
Client ID:

Operator ID: JBH ALS Bottle#: 5 Worklist Smp#: 64

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13085.d
Lims ID: LCSD 280-404582/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 13-Feb-2018 12:32:50 ALS Bottle#: 5 Worklist Smp#: 64
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404582/3-A
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	11.2	112.04

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-404785/4-A

Matrix: Water | Lab File ID: hfpo718B14011.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 250(mL) | Date Analyzed: 02/14/2018 08:13

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.192		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	82		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14011.d
Lims ID: LCSD 280-404785/4-A
Client ID:
Sample Type: LCSD
Inject. Date: 14-Feb-2018 08:13:30 ALS Bottle#: 18 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404785/4-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:37

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	614305	8.23	1368	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		614305	10.0	1368	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	628568	9.58	269	

Report Date: 15-Feb-2018 06:58:47 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14011.d

Injection Date: 14-Feb-2018 08:13:30 Instrument ID: LC_LCMS7

Lims ID: LCSD 280-404785/4-A

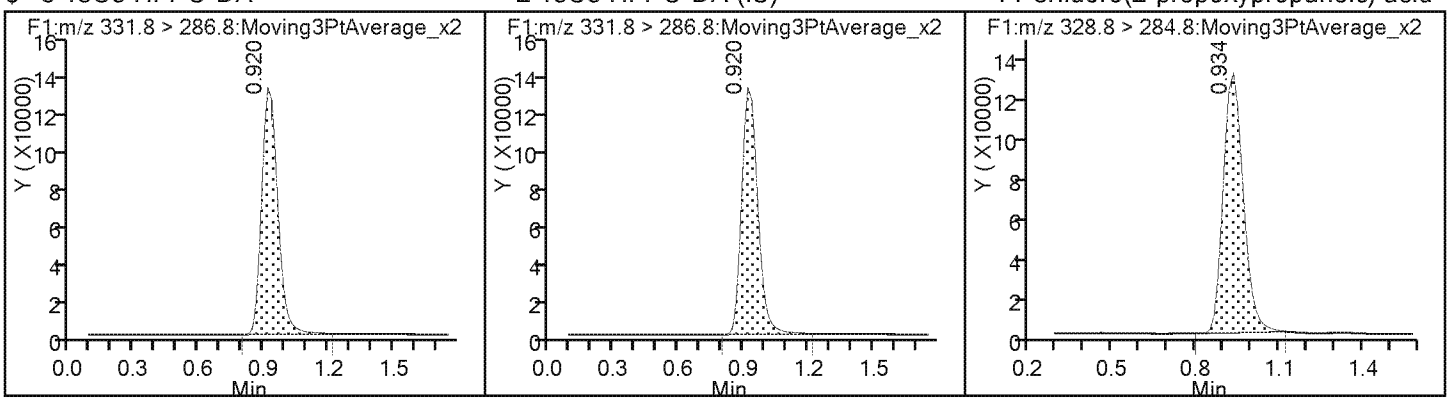
Client ID:

Operator ID: JBH ALS Bottle#: 18 Worklist Smp#: 11

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14011.d
Lims ID: LCSD 280-404785/4-A
Client ID:
Sample Type: LCSD
Inject. Date: 14-Feb-2018 08:13:30 ALS Bottle#: 18 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404785/4-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.23	82.28

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LLCS 280-404518/4-A

Matrix: Water | Lab File ID: hfpo718B12067.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/09/2018 20:54

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 13:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404641 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.0223		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	73		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12067.d
Lims ID: LLCS 280-404518/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 12-Feb-2018 13:52:01 ALS Bottle#: 39 Worklist Smp#: 34
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404518/4-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:00

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	544786	7.30	1476	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		544786	10.0	1476	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	66484	1.11	19.6	

Report Date: 12-Feb-2018 14:31:25 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12067.d

Injection Date: 12-Feb-2018 13:52:01 Instrument ID: LC_LCMS7

Lims ID: LLCS 280-404518/4-A

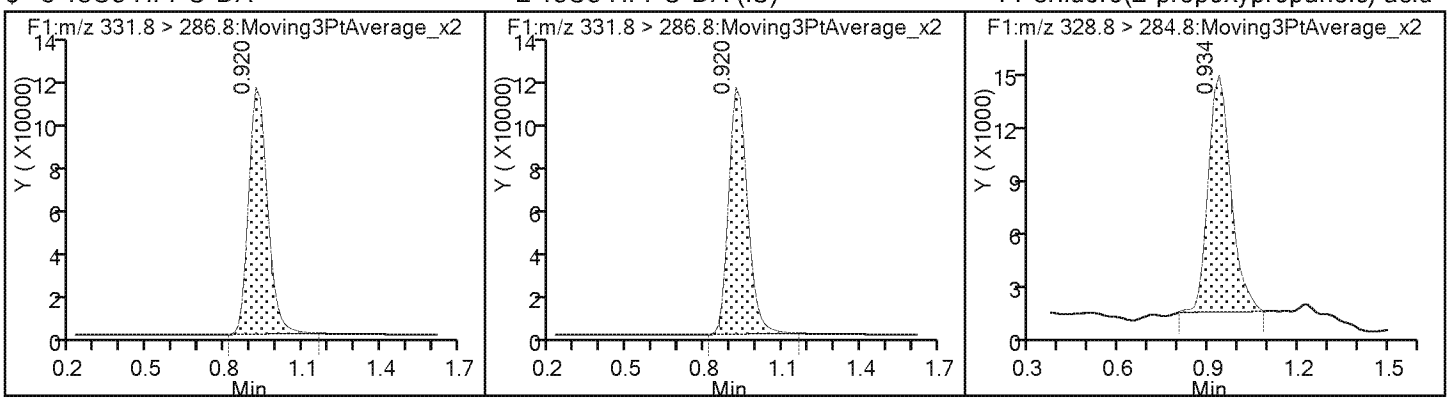
Client ID:

Operator ID: JBH ALS Bottle#: 39 Worklist Smp#: 34

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12067.d
Lims ID: LLCS 280-404518/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 12-Feb-2018 13:52:01 ALS Bottle#: 39 Worklist Smp#: 34
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404518/4-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.30	72.97

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LLCS 280-404551/3-A

Matrix: Water | Lab File ID: hfpo718B12084.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 14:47

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.0173		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	82		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12084.d
Lims ID: LLCS 280-404551/3-A
Client ID:
Sample Type: LLCS
Inject. Date: 12-Feb-2018 14:47:29 ALS Bottle#: 6 Worklist Smp#: 51
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404551/3-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:52:59 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:14

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	611881	8.20	1795	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		611881	10.0	1795	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	58376	0.8629	17.4	

Report Date: 13-Feb-2018 07:56:18 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12084.d

Injection Date: 12-Feb-2018 14:47:29 Instrument ID: LC_LCMS7

Lims ID: LLCS 280-404551/3-A

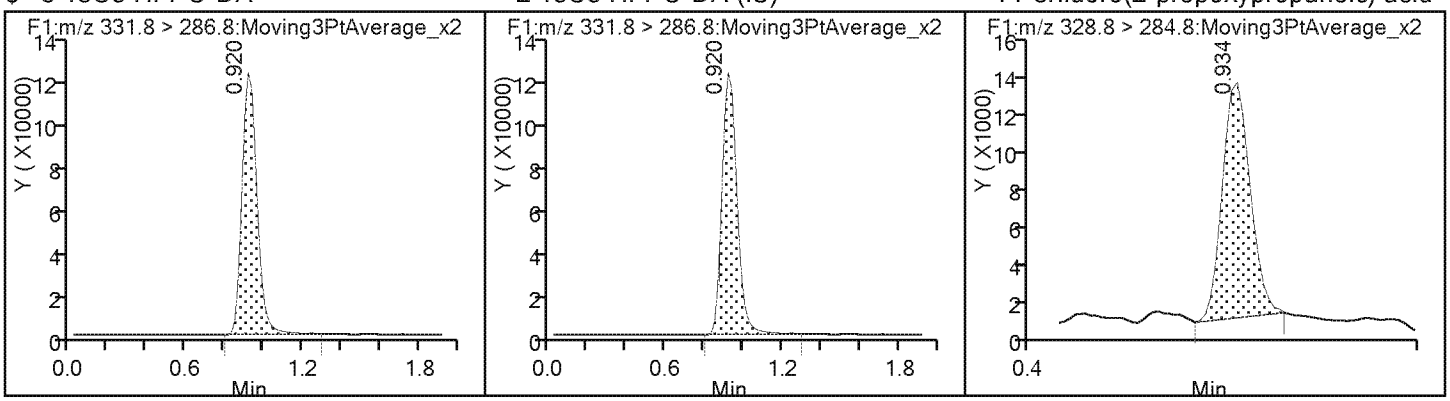
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 51

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12084.d				
Lims ID:	LLCS 280-404551/3-A				
Client ID:					
Sample Type:	LLCS				
Inject. Date:	12-Feb-2018 14:47:29	ALS Bottle#:	6	Worklist Smp#:	51
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	LLCS280-404551/3-A				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:52:59	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:47:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.20	81.96

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LLCS 280-404556/4-A

Matrix: Water | Lab File ID: hfpo718B12110.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/11/2018 19:22

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 16:11

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404643 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.0186		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	76		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12110.d
Lims ID: LLCS 280-404556/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 12-Feb-2018 16:11:56 ALS Bottle#: 29 Worklist Smp#: 77
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404556/4-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:33 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:25

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	569882	7.63	849	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		569882	10.0	849	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.920	1.056	-0.136	1.000	58379	0.9290	12.3	M

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 13-Feb-2018 07:56:36 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12110.d

Injection Date: 12-Feb-2018 16:11:56 Instrument ID: LC_LCMS7

Lims ID: LLCS 280-404556/4-A

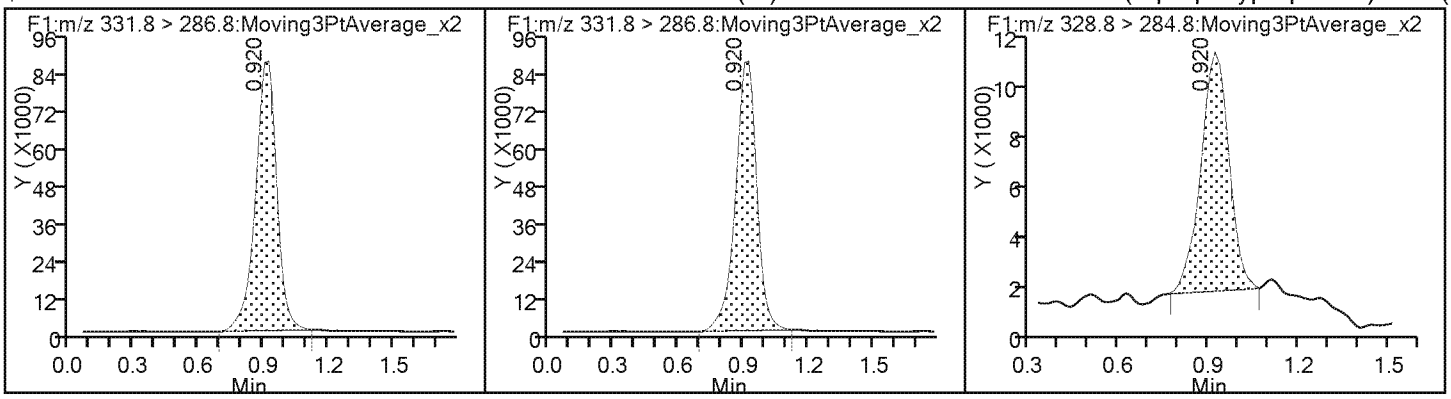
Client ID:

Operator ID: JBH ALS Bottle#: 29 Worklist Smp#: 77

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12110.d
Lims ID: LLCS 280-404556/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 12-Feb-2018 16:11:56 ALS Bottle#: 29 Worklist Smp#: 77
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404556/4-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:33 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:49:25

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.63	76.33

Manual Integration/User Assign Peak Report

TestAmerica Denver

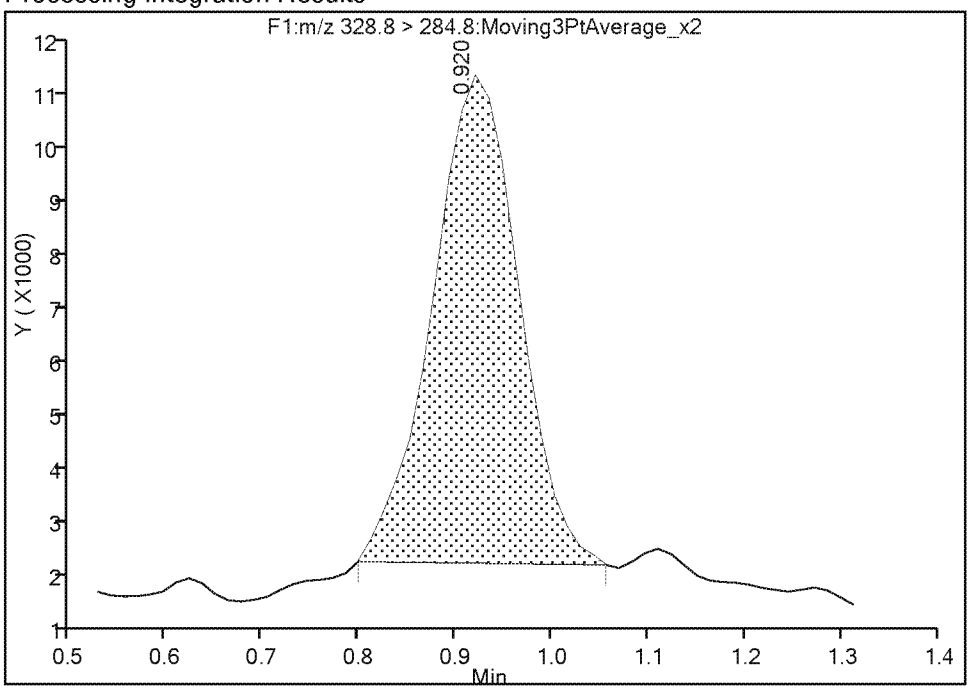
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12110.d				
Injection Date:	12-Feb-2018 16:11:56	Instrument ID:	LC_LCMS7		
Lims ID:	LLCS 280-404556/4-A				
Client ID:					
Operator ID:	JBH	ALS Bottle#:	29	Worklist Smp#:	77
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

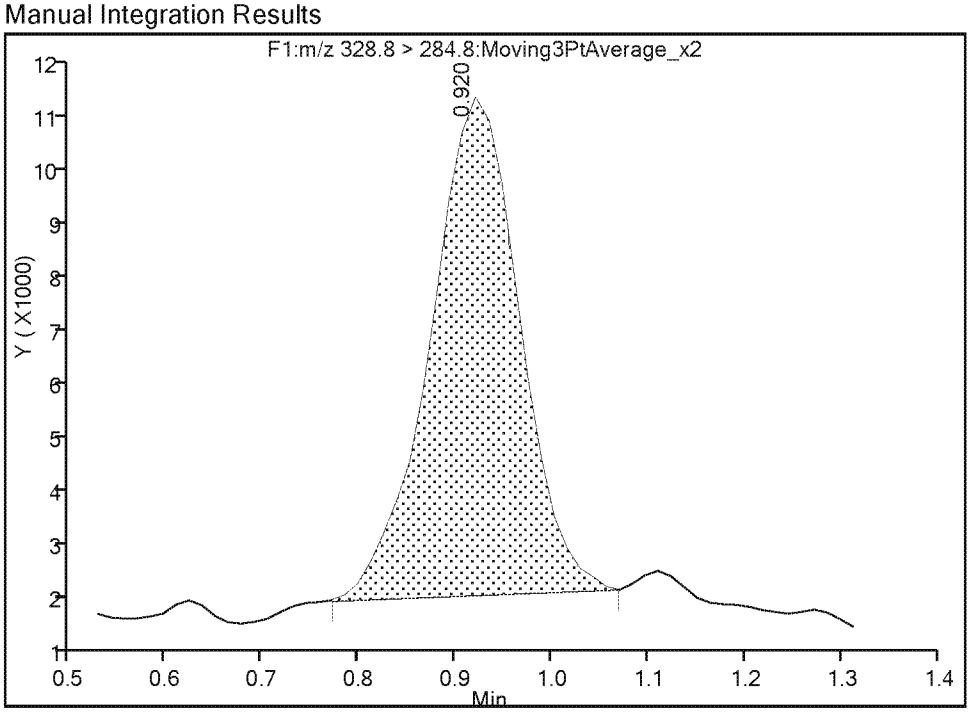
Processing Integration Results

RT: 0.92
Area: 55296
Amount: 0.878151
Amount Units: ug/l



Manual Integration Results

RT: 0.92
Area: 58379
Amount: 0.929005
Amount Units: ug/l



Reviewer: meyera, 13-Feb-2018 07:49:42

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LLCS 280-404557/4-A

Matrix: Water | Lab File ID: hfpo718B12139.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/11/2018 19:44

Sample wt/vol: 250(mL) | Date Analyzed: 02/12/2018 17:46

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404644 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.0190		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	84		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12139.d
Lims ID: LLCS 280-404557/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 12-Feb-2018 17:46:39 ALS Bottle#: 18 Worklist Smp#: 106
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404557/4-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:49 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:05

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	626405	8.39	991	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		626405	10.0	991	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	65585	0.9503	13.0	

Report Date: 13-Feb-2018 07:56:52 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12139.d

Injection Date: 12-Feb-2018 17:46:39 Instrument ID: LC_LCMS7

Lims ID: LLCS 280-404557/4-A

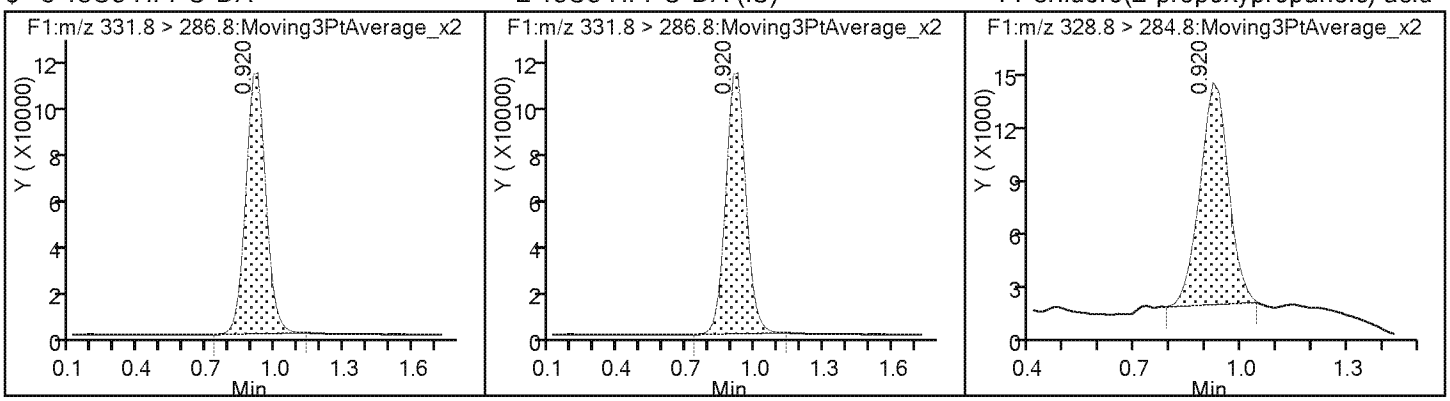
Client ID:

Operator ID: JBH ALS Bottle#: 18 Worklist Smp#: 106

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12139.d
Lims ID: LLCS 280-404557/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 12-Feb-2018 17:46:39 ALS Bottle#: 18 Worklist Smp#: 106
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404557/4-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:49 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:52:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.39	83.90

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LLCS 280-404582/4-A

Matrix: Water | Lab File ID: hfpo718B13086.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/12/2018 08:23

Sample wt/vol: 250(mL) | Date Analyzed: 02/13/2018 12:36

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404879 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.0167		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	119		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13086.d
Lims ID: LLCS 280-404582/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 13-Feb-2018 12:36:04 ALS Bottle#: 6 Worklist Smp#: 65
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404582/4-A
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:26

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	890104	11.9	1617	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		890104	10.0	1617	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	82266	0.8348	21.6	

Report Date: 14-Feb-2018 07:00:34 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13086.d

Injection Date: 13-Feb-2018 12:36:04 Instrument ID: LC_LCMS7

Lims ID: LLCS 280-404582/4-A

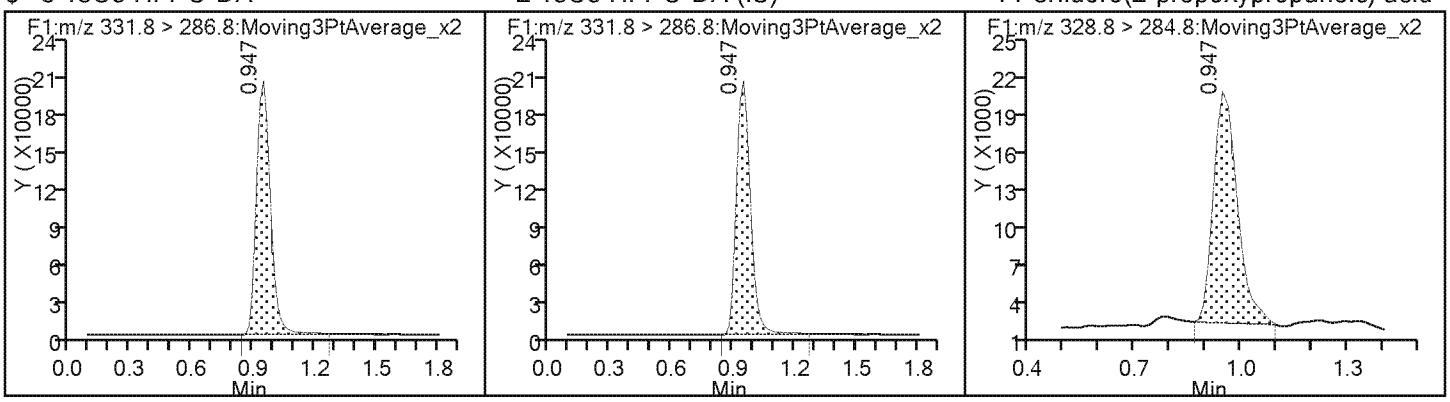
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 65

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\hfpo718B13086.d
Lims ID: LLCS 280-404582/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 13-Feb-2018 12:36:04 ALS Bottle#: 6 Worklist Smp#: 65
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404582/4-A
Misc. Info.: HFPO18B13
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180213-67200.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 14-Feb-2018 07:00:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK006

First Level Reviewer: meyera Date: 14-Feb-2018 06:58:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	11.9	119.22

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: LLCS 280-404785/3-A

Matrix: Water | Lab File ID: hfpo718B14010.d

Analysis Method: 8321A | Date Collected:

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 250(mL) | Date Analyzed: 02/14/2018 08:10

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.0178		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	84		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14010.d
Lims ID: LLCS 280-404785/3-A
Client ID:
Sample Type: LLCS
Inject. Date: 14-Feb-2018 08:10:15 ALS Bottle#: 17 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404785/3-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:35

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	626027	8.39	1159	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		626027	10.0	1159	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	61421	0.8883	32.2	

Report Date: 15-Feb-2018 06:58:47 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14010.d

Injection Date: 14-Feb-2018 08:10:15 Instrument ID: LC_LCMS7

Lims ID: LLCS 280-404785/3-A

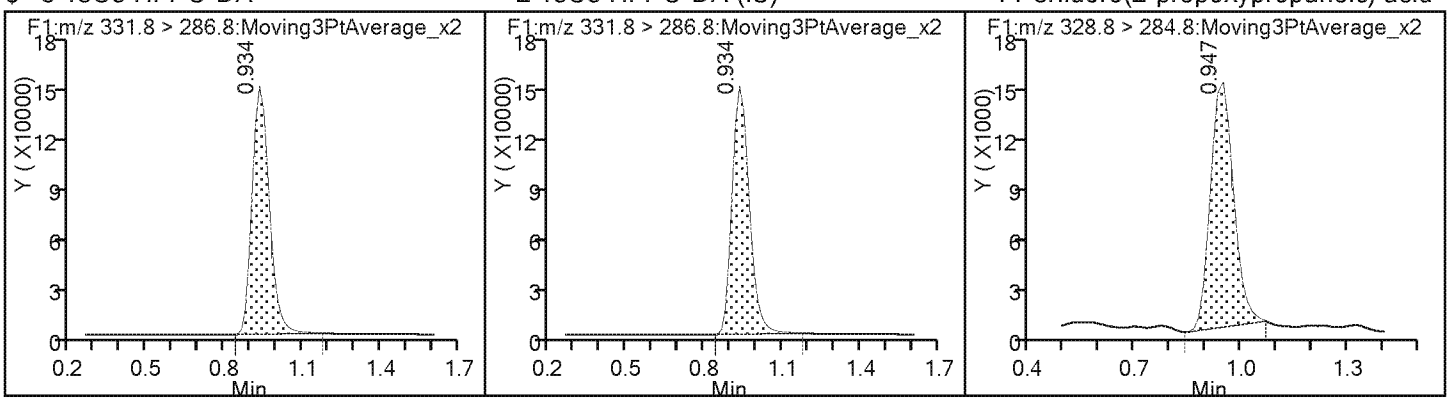
Client ID:

Operator ID: JBH ALS Bottle#: 17 Worklist Smp#: 10

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14010.d
Lims ID: LLCS 280-404785/3-A
Client ID:
Sample Type: LLCS
Inject. Date: 14-Feb-2018 08:10:15 ALS Bottle#: 17 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404785/3-A
Misc. Info.: HFPO18B14
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 15-Feb-2018 06:58:45 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK001

First Level Reviewer: meyera Date: 15-Feb-2018 06:51:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.39	83.85

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: | Lab Sample ID: DLCK 280-404345/13

Matrix: Water | Lab File ID: hfpo718B08044.d

Analysis Method: 8321A | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 02/08/2018 13:38

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404345 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.50		0.50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	104		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08044.d
Lims ID: DLCK
Client ID:
Sample Type: DLCK
Inject. Date: 08-Feb-2018 13:38:01 ALS Bottle#: 2 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: DLCK
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:17 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:32

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.056	1.045	0.011	1.000	776147	10.4	1241	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.056	1.045	0.011		776147	10.0	1241	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	1.056	1.056	0.0	1.000	21424	0.2255	2.8	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

HFPO_CAL-1_00032 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:19 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08044.d

Injection Date: 08-Feb-2018 13:38:01 Instrument ID: LC_LCMS7

Lims ID: DLCK

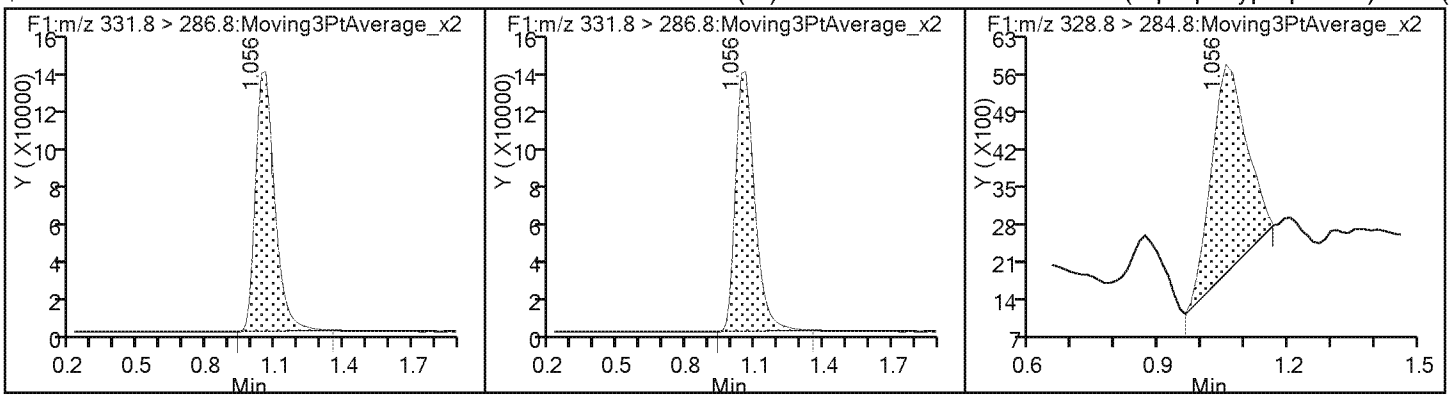
Client ID:

Operator ID: JBH ALS Bottle#: 2 Worklist Smp#: 13

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08044.d
Lims ID: DLCK
Client ID:
Sample Type: DLCK
Inject. Date: 08-Feb-2018 13:38:01 ALS Bottle#: 2 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: DLCK
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:17 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.4	103.96

Manual Integration/User Assign Peak Report

TestAmerica Denver

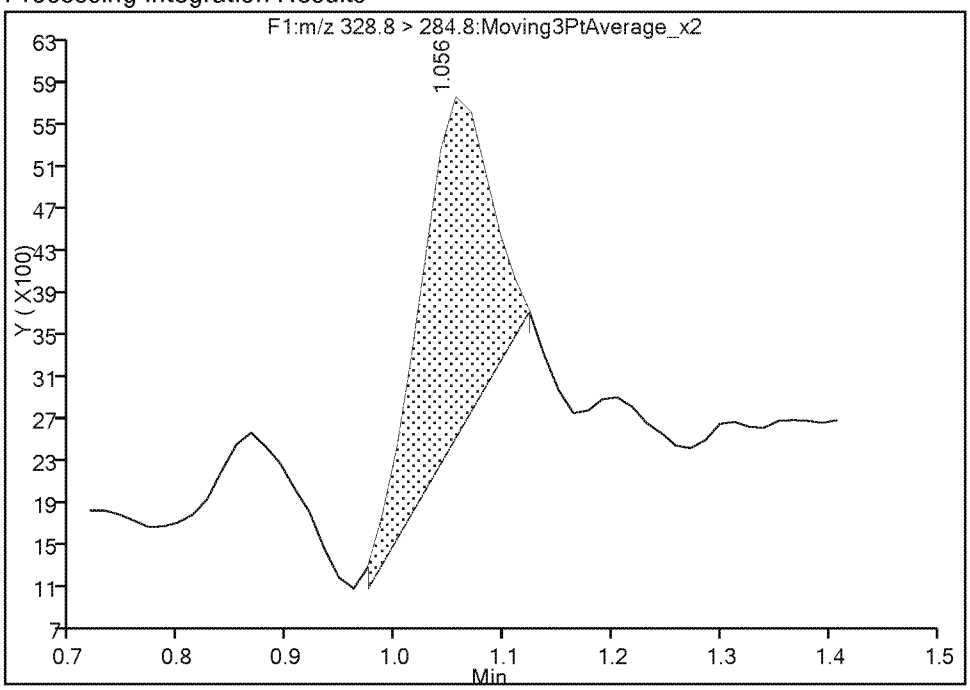
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08044.d				
Injection Date:	08-Feb-2018 13:38:01	Instrument ID:	LC_LCMS7		
Lims ID:	DLCK				
Client ID:					
Operator ID:	JBH	ALS Bottle#:	2	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

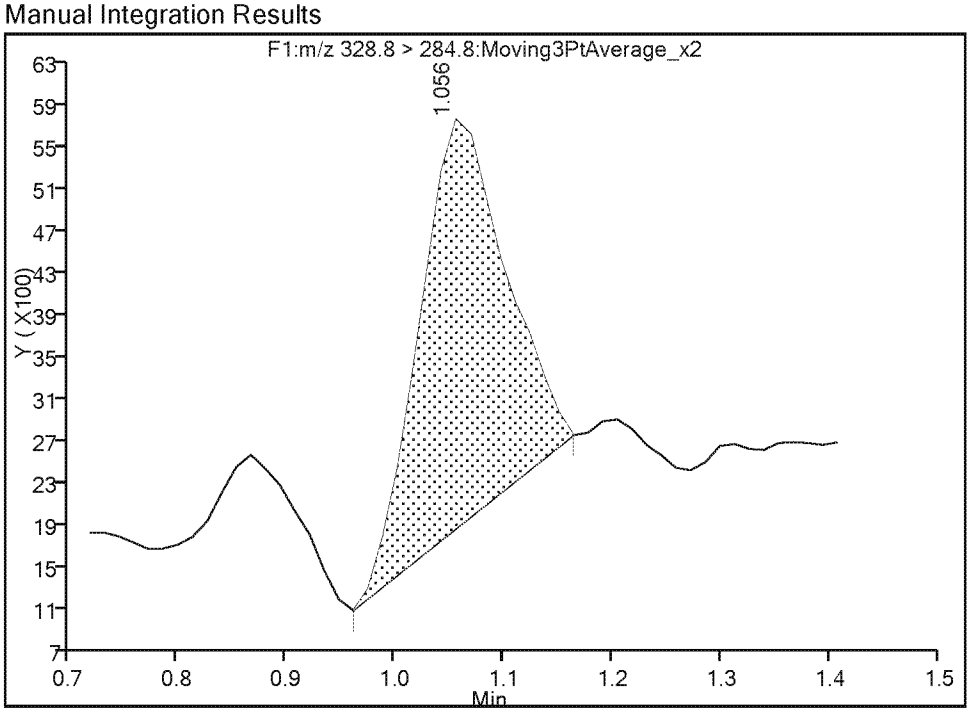
Processing Integration Results

RT: 1.06
Area: 14614
Amount: 0.143034
Amount Units: ug/l



Manual Integration Results

RT: 1.06
Area: 21424
Amount: 0.225513
Amount Units: ug/l



Reviewer: meyera, 08-Feb-2018 15:20:27

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6476TABOR-W1-1-020118 MS | Lab Sample ID: 280-106036-2 MS

Matrix: Water | Lab File ID: hfpo718B12071.d

Analysis Method: 8321A | Date Collected: 02/01/2018 09:22

Extraction Method: 3535 | Date Extracted: 02/09/2018 20:54

Sample wt/vol: 284.8(mL) | Date Analyzed: 02/12/2018 14:05

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404641 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.237		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	63		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12071.d
Lims ID: 280-106036-K-2-A MS
Client ID: FAY-D-6476TABOR-W1-1-020118
Sample Type: MS
Inject. Date: 12-Feb-2018 14:05:07 ALS Bottle#: 43 Worklist Smp#: 38
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-K-2-AMS
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:19

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	472009	6.32	814	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		472009	10.0	814	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	680795	13.5	109	

Report Date: 12-Feb-2018 14:31:28 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12071.d

Injection Date: 12-Feb-2018 14:05:07 Instrument ID: LC_LCMS7

Lims ID: 280-106036-K-2-A MS

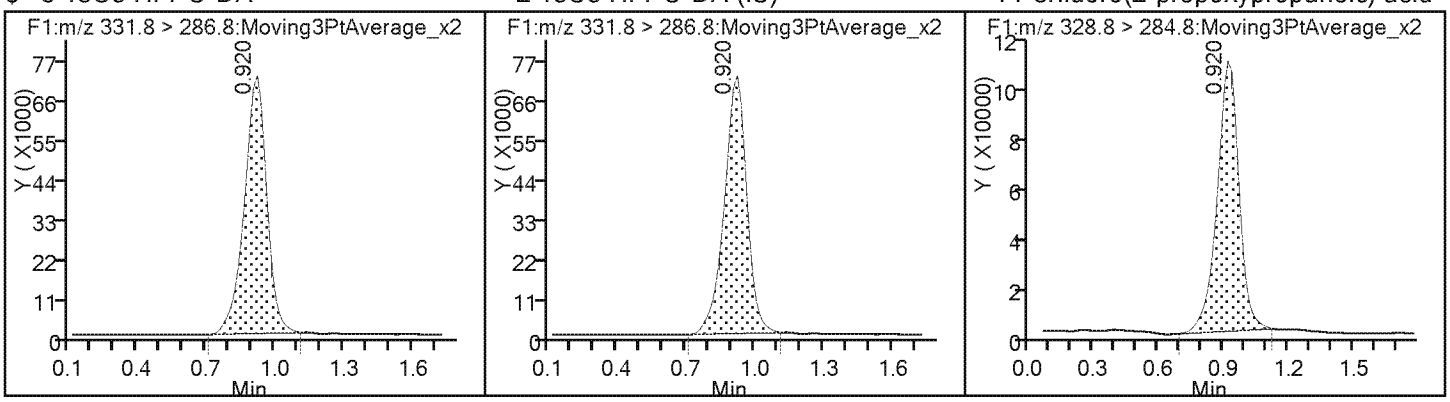
Client ID: FAY-D-6476TABOR-W1-1-020118

Operator ID: JBH ALS Bottle#: 43 Worklist Smp#: 38

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12071.d				
Lims ID:	280-106036-K-2-A MS				
Client ID:	FAY-D-6476TABOR-W1-1-020118				
Sample Type:	MS				
Inject. Date:	12-Feb-2018 14:05:07	ALS Bottle#:	43	Worklist Smp#:	38
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-K-2-AMS				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	12-Feb-2018 14:31:21	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK021				

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.32	63.22

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-5049MATTH-W1-1-020118 MS | Lab Sample ID: 280-106036-11 MS

Matrix: Water | Lab File ID: hfpo718B12097.d

Analysis Method: 8321A | Date Collected: 02/01/2018 13:48

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 276.4(mL) | Date Analyzed: 02/12/2018 15:29

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.280		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	76		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12097.d
Lims ID: 280-106036-C-11-A MS
Client ID: FAY-D-5049MATTH-W1-1-020118
Sample Type: MS
Inject. Date: 12-Feb-2018 15:29:37 ALS Bottle#: 18 Worklist Smp#: 64
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-C-11-AMS
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:07

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	568791	7.62	1199	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		568791	10.0	1199	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	937565	15.5	177	

Report Date: 13-Feb-2018 07:56:28 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12097.d

Injection Date: 12-Feb-2018 15:29:37 Instrument ID: LC_LCMS7

Lims ID: 280-106036-C-11-A MS

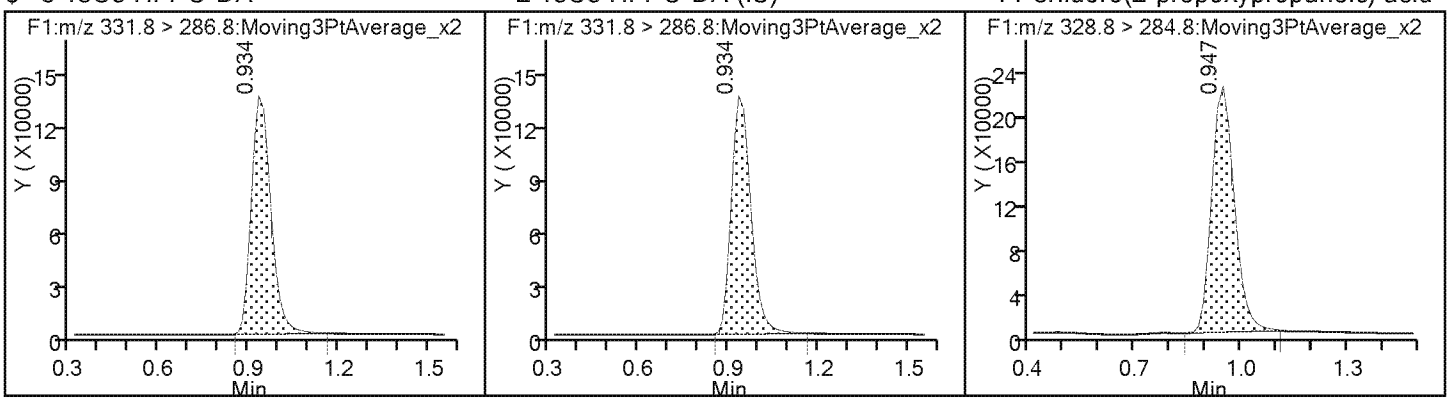
Client ID: FAY-D-5049MATTH-W1-1-020118

Operator ID: JBH ALS Bottle#: 18 Worklist Smp#: 64

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12097.d				
Lims ID:	280-106036-C-11-A MS				
Client ID:	FAY-D-5049MATTH-W1-1-020118				
Sample Type:	MS				
Inject. Date:	12-Feb-2018 15:29:37	ALS Bottle#:	18	Worklist Smp#:	64
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-C-11-AMS				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:21	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.62	76.18

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-3322DANDE-W1-1-020118 MS | Lab Sample ID: 280-106036-38 MS

Matrix: Water | Lab File ID: hfpo718B14026.d

Analysis Method: 8321A | Date Collected: 02/01/2018 16:30

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 300.2(mL) | Date Analyzed: 02/14/2018 09:02

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.157		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	83		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14026.d				
Lims ID:	280-106036-C-38-A MS				
Client ID:	FAY-D-3322DANDE-W1-1-020118				
Sample Type:	MS				
Inject. Date:	14-Feb-2018 09:02:35	ALS Bottle#:	32	Worklist Smp#:	26
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-C-38-AMS				
Misc. Info.:	HFPO18B14				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	15-Feb-2018 06:58:50	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK001				

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:50

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	619923	8.30	1286	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		619923	10.0	1286	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	625847	9.46	155	

Report Date: 15-Feb-2018 06:58:55 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14026.d

Injection Date: 14-Feb-2018 09:02:35 Instrument ID: LC_LCMS7

Lims ID: 280-106036-C-38-A MS

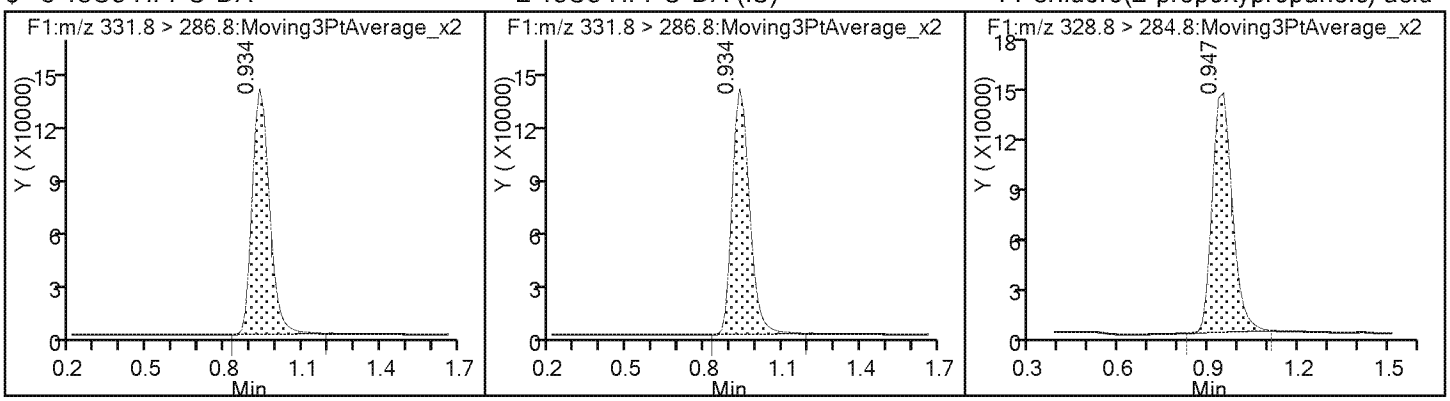
Client ID: FAY-D-3322DANDE-W1-1-020118

Operator ID: JBH ALS Bottle#: 32 Worklist Smp#: 26

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14026.d				
Lims ID:	280-106036-C-38-A MS				
Client ID:	FAY-D-3322DANDE-W1-1-020118				
Sample Type:	MS				
Inject. Date:	14-Feb-2018 09:02:35	ALS Bottle#:	32	Worklist Smp#:	26
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-C-38-AMS				
Misc. Info.:	HFPO18B14				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	15-Feb-2018 06:58:50	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK001				

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.30	83.03

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-6476TABOR-W1-1-020118 DU | Lab Sample ID: 280-106036-2 DU

Matrix: Water | Lab File ID: hfpo718B12070.d

Analysis Method: 8321A | Date Collected: 02/01/2018 09:22

Extraction Method: 3535 | Date Extracted: 02/09/2018 20:54

Sample wt/vol: 270.4(mL) | Date Analyzed: 02/12/2018 14:01

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404641 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.0395		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	66		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12070.d
Lims ID: 280-106036-F-2-A DU
Client ID: FAY-D-6476TABOR-W1-1-020118
Sample Type: DU
Inject. Date: 12-Feb-2018 14:01:51 ALS Bottle#: 42 Worklist Smp#: 37
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-F-2-ADU
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:17

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	489094	6.55	1138	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		489094	10.0	1138	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	112856	2.14	22.8	

Report Date: 12-Feb-2018 14:31:27 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12070.d

Injection Date: 12-Feb-2018 14:01:51 Instrument ID: LC_LCMS7

Lims ID: 280-106036-F-2-A DU

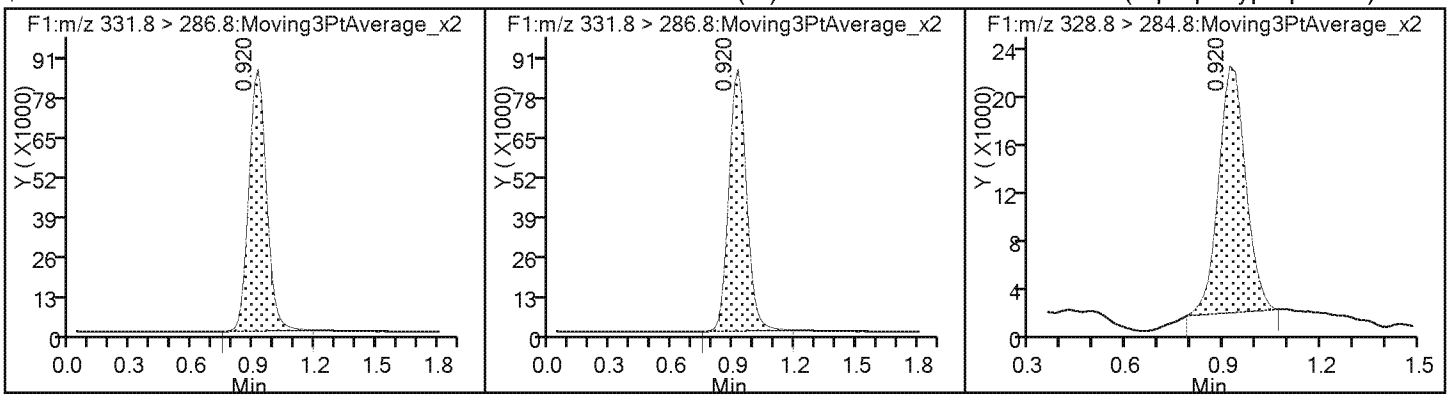
Client ID: FAY-D-6476TABOR-W1-1-020118

Operator ID: JBH ALS Bottle#: 42 Worklist Smp#: 37

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12070.d				
Lims ID:	280-106036-F-2-A DU				
Client ID:	FAY-D-6476TABOR-W1-1-020118				
Sample Type:	DU				
Inject. Date:	12-Feb-2018 14:01:51	ALS Bottle#:	42	Worklist Smp#:	37
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-F-2-ADU				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	12-Feb-2018 14:31:21	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK021				

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.55	65.51

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-5049MATTH-W1-1-020118 DU | Lab Sample ID: 280-106036-11 DU

Matrix: Water | Lab File ID: hfpo718B12096.d

Analysis Method: 8321A | Date Collected: 02/01/2018 13:48

Extraction Method: 3535 | Date Extracted: 02/11/2018 11:55

Sample wt/vol: 283.1(mL) | Date Analyzed: 02/12/2018 15:26

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.111		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	73		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12096.d
Lims ID: 280-106036-B-11-A DU
Client ID: FAY-D-5049MATTH-W1-1-020118
Sample Type: DU
Inject. Date: 12-Feb-2018 15:26:22 ALS Bottle#: 17 Worklist Smp#: 63
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106036-B-11-ADU
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 13-Feb-2018 07:56:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK025

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:04

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	542537	7.27	1668	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		542537	10.0	1668	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	365204	6.29	77.6	

Report Date: 13-Feb-2018 07:56:27 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12096.d

Injection Date: 12-Feb-2018 15:26:22 Instrument ID: LC_LCMS7

Lims ID: 280-106036-B-11-A DU

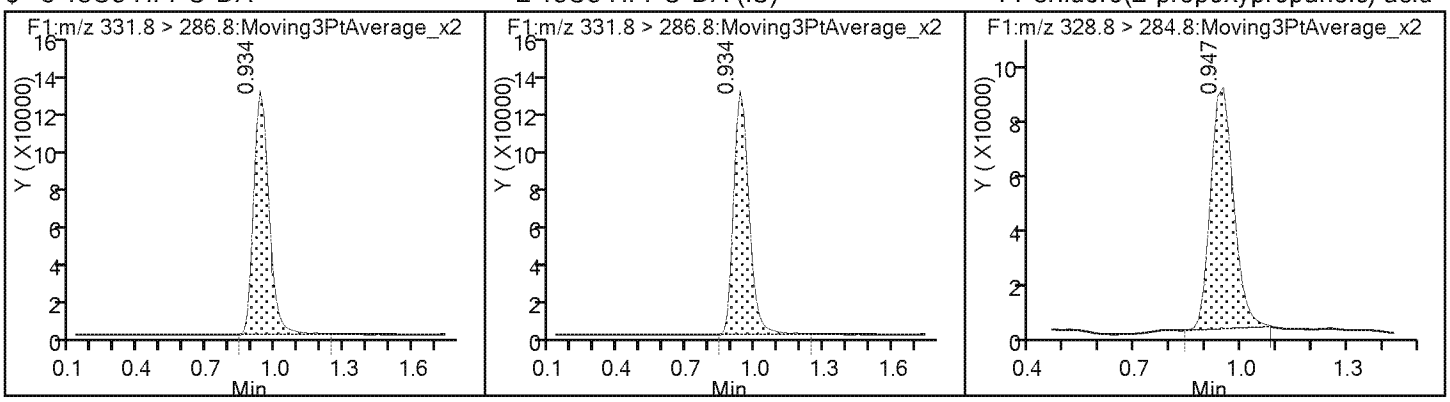
Client ID: FAY-D-5049MATTH-W1-1-020118

Operator ID: JBH ALS Bottle#: 17 Worklist Smp#: 63

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12096.d				
Lims ID:	280-106036-B-11-A DU				
Client ID:	FAY-D-5049MATTH-W1-1-020118				
Sample Type:	DU				
Inject. Date:	12-Feb-2018 15:26:22	ALS Bottle#:	17	Worklist Smp#:	63
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-B-11-ADU				
Misc. Info.:	HFPO18B12				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	13-Feb-2018 07:56:21	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK025				

First Level Reviewer: meyera Date: 13-Feb-2018 07:48:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.27	72.67

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106036-1

SDG No.:

Client Sample ID: FAY-D-3322DANDE-W1-1-020118 DU | Lab Sample ID: 280-106036-38 DU

Matrix: Water | Lab File ID: hfpo718B14025.d

Analysis Method: 8321A | Date Collected: 02/01/2018 16:30

Extraction Method: 3535 | Date Extracted: 02/13/2018 11:30

Sample wt/vol: 303.3(mL) | Date Analyzed: 02/14/2018 08:59

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 405022 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	78		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14025.d				
Lims ID:	280-106036-B-38-A DU				
Client ID:	FAY-D-3322DANDE-W1-1-020118				
Sample Type:	DU				
Inject. Date:	14-Feb-2018 08:59:18	ALS Bottle#:	31	Worklist Smp#:	25
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-B-38-ADU				
Misc. Info.:	HFPO18B14				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	15-Feb-2018 06:58:50	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK001				

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:48

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	580584	7.78	1147	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		580584	10.0	1147	

Report Date: 15-Feb-2018 06:58:54 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14025.d

Injection Date: 14-Feb-2018 08:59:18 Instrument ID: LC_LCMS7

Lims ID: 280-106036-B-38-A DU

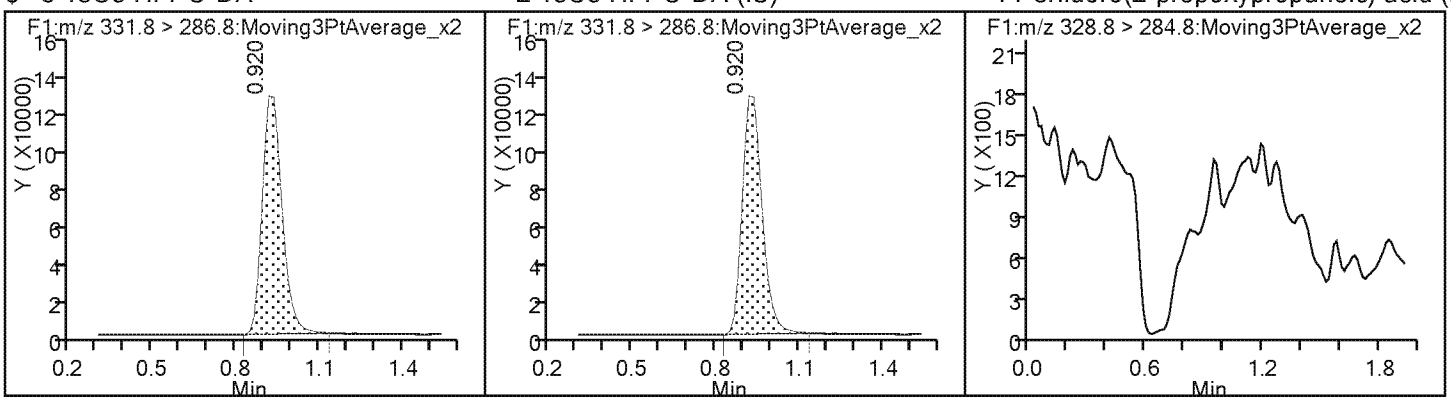
Client ID: FAY-D-3322DANDE-W1-1-020118

Operator ID: JBH ALS Bottle#: 31 Worklist Smp#: 25

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\hfpo718B14025.d				
Lims ID:	280-106036-B-38-A DU				
Client ID:	FAY-D-3322DANDE-W1-1-020118				
Sample Type:	DU				
Inject. Date:	14-Feb-2018 08:59:18	ALS Bottle#:	31	Worklist Smp#:	25
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106036-B-38-ADU				
Misc. Info.:	HFPO18B14				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180215-67263.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	15-Feb-2018 06:58:50	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK001				

First Level Reviewer: meyera Date: 15-Feb-2018 06:55:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.78	77.76

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 10/10/2017 09:35

Analysis Batch Number: 390728 End Date: 10/10/2017 11:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD001 280-390728/3 IC		10/10/2017 09:35	1	hfpo717J10026.d	Synergi Hydro
STD002 280-390728/4 IC		10/10/2017 09:38	1	hfpo717J10027.d	Synergi Hydro
STD003 280-390728/5 IC		10/10/2017 09:41	1	hfpo717J10028.d	Synergi Hydro
STD004 280-390728/6 IC		10/10/2017 09:45	1	hfpo717J10029.d	Synergi Hydro
STD005 280-390728/7 IC		10/10/2017 09:48	1	hfpo717J10030.d	Synergi Hydro
STD006 280-390728/8 IC		10/10/2017 09:51	1	hfpo717J10031.d	Synergi Hydro
STD007 280-390728/9 IC		10/10/2017 09:54	1	hfpo717J10032.d	Synergi Hydro
STD008 280-390728/10 IC		10/10/2017 09:58	1	hfpo717J10033.d	Synergi Hydro
ICB 280-390728/11		10/10/2017 10:01	1		Synergi Hydro
ZZZZZ		10/10/2017 10:04	1		Synergi Hydro
ICV 280-390728/13		10/10/2017 10:07	1	hfpo717J10036.d	Synergi Hydro
ZZZZZ		10/10/2017 10:11	1		Synergi Hydro
ZZZZZ		10/10/2017 10:14	1		Synergi Hydro
ZZZZZ		10/10/2017 10:17	1		Synergi Hydro
ZZZZZ		10/10/2017 10:20	1		Synergi Hydro
ZZZZZ		10/10/2017 10:23	1		Synergi Hydro
ZZZZZ		10/10/2017 10:27	1		Synergi Hydro
ZZZZZ		10/10/2017 10:30	1		Synergi Hydro
ZZZZZ		10/10/2017 10:33	1		Synergi Hydro
ZZZZZ		10/10/2017 10:36	1		Synergi Hydro
ZZZZZ		10/10/2017 10:40	1		Synergi Hydro
CCV 280-390728/24		10/10/2017 10:43	1		Synergi Hydro
ZZZZZ		10/10/2017 10:46	1		Synergi Hydro
ZZZZZ		10/10/2017 10:49	1		Synergi Hydro
ZZZZZ		10/10/2017 10:53	1		Synergi Hydro
ZZZZZ		10/10/2017 10:56	1		Synergi Hydro
ZZZZZ		10/10/2017 10:59	1		Synergi Hydro
ZZZZZ		10/10/2017 11:02	1		Synergi Hydro
ZZZZZ		10/10/2017 11:06	1		Synergi Hydro
ZZZZZ		10/10/2017 11:09	1		Synergi Hydro
ZZZZZ		10/10/2017 11:12	1		Synergi Hydro
ZZZZZ		10/10/2017 11:16	1		Synergi Hydro
CCV 280-390728/35		10/10/2017 11:19	1		Synergi Hydro

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 02/08/2018 13:05

Analysis Batch Number: 404345 End Date: 02/08/2018 13:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD001 280-404345/3 IC		02/08/2018 13:05	1	hfpo718B08034.d	Synergi Hydro
STD002 280-404345/4 IC		02/08/2018 13:08	1	hfpo718B08035.d	Synergi Hydro
STD003 280-404345/5 IC		02/08/2018 13:12	1	hfpo718B08036.d	Synergi Hydro
STD004 280-404345/6 IC		02/08/2018 13:15	1	hfpo718B08037.d	Synergi Hydro
STD005 280-404345/7 IC		02/08/2018 13:18	1	hfpo718B08038.d	Synergi Hydro
STD006 280-404345/8 IC		02/08/2018 13:21	1	hfpo718B08039.d	Synergi Hydro
STD007 280-404345/9 IC		02/08/2018 13:25	1	hfpo718B08040.d	Synergi Hydro
STD008 280-404345/10 IC		02/08/2018 13:28	1	hfpo718B08041.d	Synergi Hydro
STD009 280-404345/11 IC		02/08/2018 13:31	1	hfpo718B08042.d	Synergi Hydro
ICB 280-404345/12		02/08/2018 13:34	1		Synergi Hydro
DLCK 280-404345/13		02/08/2018 13:38	1	hfpo718B08044.d	Synergi Hydro
ICV 280-404345/14		02/08/2018 13:41	1		Synergi Hydro

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 02/12/2018 13:38

Analysis Batch Number: 404641 End Date: 02/12/2018 14:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-404641/30		02/12/2018 13:38	1	hfpo718B12063.d	Synergi Hydro
MB 280-404518/1-A		02/12/2018 13:42	1	hfpo718B12064.d	Synergi Hydro
LCS 280-404518/2-A		02/12/2018 13:45	1	hfpo718B12065.d	Synergi Hydro
LCSD 280-404518/3-A		02/12/2018 13:48	1	hfpo718B12066.d	Synergi Hydro
LLCS 280-404518/4-A		02/12/2018 13:52	1	hfpo718B12067.d	Synergi Hydro
280-106036-1		02/12/2018 13:55	1	hfpo718B12068.d	Synergi Hydro
280-106036-2		02/12/2018 13:58	1	hfpo718B12069.d	Synergi Hydro
280-106036-2 DU		02/12/2018 14:01	1	hfpo718B12070.d	Synergi Hydro
280-106036-2 MS		02/12/2018 14:05	1	hfpo718B12071.d	Synergi Hydro
ZZZZZ		02/12/2018 14:08	1		Synergi Hydro
ZZZZZ		02/12/2018 14:11	1		Synergi Hydro
CCV 280-404641/41		02/12/2018 14:14	1	hfpo718B12074.d	Synergi Hydro
ZZZZZ		02/12/2018 14:18	1		Synergi Hydro
ZZZZZ		02/12/2018 14:21	1		Synergi Hydro
ZZZZZ		02/12/2018 14:24	1		Synergi Hydro
ZZZZZ		02/12/2018 14:28	1		Synergi Hydro
ZZZZZ		02/12/2018 14:31	1		Synergi Hydro
ZZZZZ		02/12/2018 14:34	1		Synergi Hydro
CCV 280-404641/48		02/12/2018 14:37	1		Synergi Hydro

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 02/12/2018 14:37

Analysis Batch Number: 404642 End Date: 02/12/2018 15:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-404642/48		02/12/2018 14:37	1	hfpo718B12081.d	Synergi Hydro
MB 280-404551/1-A		02/12/2018 14:41	1	hfpo718B12082.d	Synergi Hydro
LCS 280-404551/2-A		02/12/2018 14:44	1	hfpo718B12083.d	Synergi Hydro
LLCS 280-404551/3-A		02/12/2018 14:47	1	hfpo718B12084.d	Synergi Hydro
LCSD 280-404551/4-A		02/12/2018 14:50	1	hfpo718B12085.d	Synergi Hydro
280-106036-3		02/12/2018 14:53	1	hfpo718B12086.d	Synergi Hydro
280-106036-4		02/12/2018 14:57	1	hfpo718B12087.d	Synergi Hydro
CCV 280-404642/55		02/12/2018 15:00	1	hfpo718B12088.d	Synergi Hydro
280-106036-5		02/12/2018 15:03	1	hfpo718B12089.d	Synergi Hydro
280-106036-6		02/12/2018 15:06	1	hfpo718B12090.d	Synergi Hydro
280-106036-7		02/12/2018 15:10	1	hfpo718B12091.d	Synergi Hydro
280-106036-8		02/12/2018 15:13	1	hfpo718B12092.d	Synergi Hydro
280-106036-9		02/12/2018 15:16	1	hfpo718B12093.d	Synergi Hydro
280-106036-10		02/12/2018 15:19	1	hfpo718B12094.d	Synergi Hydro
280-106036-11		02/12/2018 15:23	1	hfpo718B12095.d	Synergi Hydro
280-106036-11 DU		02/12/2018 15:26	1	hfpo718B12096.d	Synergi Hydro
280-106036-11 MS		02/12/2018 15:29	1	hfpo718B12097.d	Synergi Hydro
280-106036-12		02/12/2018 15:32	1	hfpo718B12098.d	Synergi Hydro
CCV 280-404642/66		02/12/2018 15:36	1	hfpo718B12099.d	Synergi Hydro
280-106036-13		02/12/2018 15:39	1	hfpo718B12100.d	Synergi Hydro
280-106036-14		02/12/2018 15:42	1	hfpo718B12101.d	Synergi Hydro
280-106036-15		02/12/2018 15:45	1	hfpo718B12102.d	Synergi Hydro
280-106036-16		02/12/2018 15:49	1	hfpo718B12103.d	Synergi Hydro
280-106036-17		02/12/2018 15:52	1	hfpo718B12104.d	Synergi Hydro
280-106036-18		02/12/2018 15:55	1	hfpo718B12105.d	Synergi Hydro
CCV 280-404642/73		02/12/2018 15:58	1	hfpo718B12106.d	Synergi Hydro

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 02/12/2018 15:58

Analysis Batch Number: 404643 End Date: 02/12/2018 17:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-404643/73		02/12/2018 15:58	1	hfpo718B12106.d	Synergi Hydro
MB 280-404556/1-A		02/12/2018 16:02	1	hfpo718B12107.d	Synergi Hydro
LCS 280-404556/2-A		02/12/2018 16:05	1	hfpo718B12108.d	Synergi Hydro
LCSD 280-404556/3-A		02/12/2018 16:08	1	hfpo718B12109.d	Synergi Hydro
LLCS 280-404556/4-A		02/12/2018 16:11	1	hfpo718B12110.d	Synergi Hydro
280-106036-19		02/12/2018 16:15	1	hfpo718B12111.d	Synergi Hydro
280-106036-20		02/12/2018 16:18	1	hfpo718B12112.d	Synergi Hydro
280-106036-21		02/12/2018 16:21	1	hfpo718B12113.d	Synergi Hydro
280-106036-22		02/12/2018 16:25	1	hfpo718B12114.d	Synergi Hydro
ZZZZZ		02/12/2018 16:28	1		Synergi Hydro
ZZZZZ		02/12/2018 16:31	1		Synergi Hydro
CCV 280-404643/84		02/12/2018 16:34	1	hfpo718B12117.d	Synergi Hydro
ZZZZZ		02/12/2018 16:38	1		Synergi Hydro
ZZZZZ		02/12/2018 16:41	1		Synergi Hydro
ZZZZZ		02/12/2018 16:44	1		Synergi Hydro
ZZZZZ		02/12/2018 16:47	1		Synergi Hydro
ZZZZZ		02/12/2018 16:51	1		Synergi Hydro
ZZZZZ		02/12/2018 16:54	1		Synergi Hydro
ZZZZZ		02/12/2018 16:57	1		Synergi Hydro
ZZZZZ		02/12/2018 17:01	1		Synergi Hydro
ZZZZZ		02/12/2018 17:04	1		Synergi Hydro
CCV 280-404643/94		02/12/2018 17:07	1	hfpo718B12127.d	Synergi Hydro
ZZZZZ		02/12/2018 17:10	1		Synergi Hydro
ZZZZZ		02/12/2018 17:14	1		Synergi Hydro
ZZZZZ		02/12/2018 17:17	1		Synergi Hydro
ZZZZZ		02/12/2018 17:20	1		Synergi Hydro
ZZZZZ		02/12/2018 17:23	1		Synergi Hydro
ZZZZZ		02/12/2018 17:27	1		Synergi Hydro
ZZZZZ		02/12/2018 17:30	1		Synergi Hydro
CCV 280-404643/102		02/12/2018 17:33	1		Synergi Hydro

8321A

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 02/12/2018 17:33

Analysis Batch Number: 404644 End Date: 02/12/2018 18:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-404644/102		02/12/2018 17:33	1	hfpo718B12135.d	Synergi Hydro
MB 280-404557/1-A		02/12/2018 17:36	1	hfpo718B12136.d	Synergi Hydro
LCS 280-404557/2-A		02/12/2018 17:40	1	hfpo718B12137.d	Synergi Hydro
LCSD 280-404557/3-A		02/12/2018 17:43	1	hfpo718B12138.d	Synergi Hydro
LLCS 280-404557/4-A		02/12/2018 17:46	1	hfpo718B12139.d	Synergi Hydro
280-106036-23		02/12/2018 17:49	1	hfpo718B12140.d	Synergi Hydro
280-106036-24		02/12/2018 17:53	1	hfpo718B12141.d	Synergi Hydro
280-106036-25		02/12/2018 17:56	1	hfpo718B12142.d	Synergi Hydro
280-106036-26		02/12/2018 17:59	1	hfpo718B12143.d	Synergi Hydro
CCV 280-404644/111		02/12/2018 18:02	1	hfpo718B12144.d	Synergi Hydro
ZZZZZ		02/12/2018 18:06	1		Synergi Hydro
ZZZZZ		02/12/2018 18:09	1		Synergi Hydro
ZZZZZ		02/12/2018 18:12	1		Synergi Hydro
ZZZZZ		02/12/2018 18:15	1		Synergi Hydro
ZZZZZ		02/12/2018 18:19	1		Synergi Hydro
ZZZZZ		02/12/2018 18:22	1		Synergi Hydro
CCV 280-404644/118		02/12/2018 18:25	1	hfpo718B12151.d	Synergi Hydro

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 02/13/2018 12:23

Analysis Batch Number: 404879 End Date: 02/13/2018 15:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-404879/61		02/13/2018 12:23	1	hfpo718B13082.d	Synergi Hydro
MB 280-404582/1-A		02/13/2018 12:26	1	hfpo718B13083.d	Synergi Hydro
LCS 280-404582/2-A		02/13/2018 12:29	1	hfpo718B13084.d	Synergi Hydro
LCSD 280-404582/3-A		02/13/2018 12:32	1	hfpo718B13085.d	Synergi Hydro
LLCS 280-404582/4-A		02/13/2018 12:36	1	hfpo718B13086.d	Synergi Hydro
280-106036-39		02/13/2018 12:39	1	hfpo718B13087.d	Synergi Hydro
280-106036-40		02/13/2018 12:42	1	hfpo718B13088.d	Synergi Hydro
280-106036-41		02/13/2018 12:45	1	hfpo718B13089.d	Synergi Hydro
280-106036-42		02/13/2018 12:49	1	hfpo718B13090.d	Synergi Hydro
280-106036-43		02/13/2018 12:52	1	hfpo718B13091.d	Synergi Hydro
CCV 280-404879/71		02/13/2018 12:55	1	hfpo718B13092.d	Synergi Hydro
CCV 280-404879/72		02/13/2018 14:06	1	hfpo718B13111.d	Synergi Hydro
ZZZZZ		02/13/2018 14:09	50		Synergi Hydro
ZZZZZ		02/13/2018 14:13	50		Synergi Hydro
ZZZZZ		02/13/2018 14:16	50		Synergi Hydro
ZZZZZ		02/13/2018 14:19	1		Synergi Hydro
ZZZZZ		02/13/2018 14:22	1		Synergi Hydro
ZZZZZ		02/13/2018 14:26	1		Synergi Hydro
ZZZZZ		02/13/2018 14:29	1		Synergi Hydro
CCV 280-404879/80		02/13/2018 14:32	1	hfpo718B13119.d	Synergi Hydro
ZZZZZ		02/13/2018 14:36	50		Synergi Hydro
ZZZZZ		02/13/2018 14:39	50		Synergi Hydro
ZZZZZ		02/13/2018 14:42	50		Synergi Hydro
ZZZZZ		02/13/2018 14:45	1		Synergi Hydro
ZZZZZ		02/13/2018 14:49	2		Synergi Hydro
ZZZZZ		02/13/2018 14:52	1		Synergi Hydro
ZZZZZ		02/13/2018 14:55	1		Synergi Hydro
ZZZZZ		02/13/2018 14:58	2		Synergi Hydro
ZZZZZ		02/13/2018 15:02	2		Synergi Hydro
ZZZZZ		02/13/2018 15:05	2		Synergi Hydro
CCV 280-404879/91		02/13/2018 15:08	1	hfpo718B13130.d	Synergi Hydro

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 02/14/2018 08:00

Analysis Batch Number: 405022 End Date: 02/14/2018 09:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-405022/7		02/14/2018 08:00	1	hfpo718B14007.d	Synergi Hydro
MB 280-404785/1-A		02/14/2018 08:03	1	hfpo718B14008.d	Synergi Hydro
LCS 280-404785/2-A		02/14/2018 08:07	1	hfpo718B14009.d	Synergi Hydro
LLCS 280-404785/3-A		02/14/2018 08:10	1	hfpo718B14010.d	Synergi Hydro
LCSD 280-404785/4-A		02/14/2018 08:13	1	hfpo718B14011.d	Synergi Hydro
280-106036-27		02/14/2018 08:16	1	hfpo718B14012.d	Synergi Hydro
280-106036-28		02/14/2018 08:20	1	hfpo718B14013.d	Synergi Hydro
280-106036-29		02/14/2018 08:23	1	hfpo718B14014.d	Synergi Hydro
280-106036-30		02/14/2018 08:26	1	hfpo718B14015.d	Synergi Hydro
280-106036-31		02/14/2018 08:30	1	hfpo718B14016.d	Synergi Hydro
280-106036-32		02/14/2018 08:33	1	hfpo718B14017.d	Synergi Hydro
CCV 280-405022/18		02/14/2018 08:36	1	hfpo718B14018.d	Synergi Hydro
280-106036-33		02/14/2018 08:39	1	hfpo718B14019.d	Synergi Hydro
280-106036-34		02/14/2018 08:43	1	hfpo718B14020.d	Synergi Hydro
280-106036-35		02/14/2018 08:46	1	hfpo718B14021.d	Synergi Hydro
280-106036-36		02/14/2018 08:49	1	hfpo718B14022.d	Synergi Hydro
280-106036-37		02/14/2018 08:52	1	hfpo718B14023.d	Synergi Hydro
280-106036-38		02/14/2018 08:56	1	hfpo718B14024.d	Synergi Hydro
280-106036-38 DU		02/14/2018 08:59	1	hfpo718B14025.d	Synergi Hydro
280-106036-38 MS		02/14/2018 09:02	1	hfpo718B14026.d	Synergi Hydro
ZZZZZ		02/14/2018 09:05	2		Synergi Hydro
CCV 280-405022/28		02/14/2018 09:09	1	hfpo718B14028.d	Synergi Hydro

8321A

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Batch Number: 404518 Batch Start Date: 02/09/18 20:54 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/09/18 23:23

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00008	HFPO Spike 00004
MB 280-404518/1		3535, 8321A				250 mL	5 mL	0.1 mL	
LCS 280-404518/2		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LCSD 280-404518/3		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LLCS 280-404518/4		3535, 8321A				250 mL	5 mL	0.1 mL	0.01 mL
280-106036-C-1	FAY-D-6377TABOR-W1-1-020118	3535, 8321A	T	308.3 g	28.8 g	279.5 mL	5 mL	0.1 mL	
280-106036-E-2	FAY-D-6476TABOR-W1-1-020118	3535, 8321A	T	302.8 g	28.8 g	274 mL	5 mL	0.1 mL	
280-106036-F-2 DU	FAY-D-6476TABOR-W1-1-020118	3535, 8321A	T	298.7 g	28.3 g	270.4 mL	5 mL	0.1 mL	
280-106036-K-2 MS	FAY-D-6476TABOR-W1-1-020118	3535, 8321A	T	313.3 g	28.5 g	284.8 mL	5 mL	0.1 mL	0.1 mL

Batch Notes	
Acid ID	2% Formic Aci_00141
Acid Name	2% Formic Acid
Balance ID	24350888
Batch Comment	Reviewer:CDC
First End time	2.9.18@2139
H2O ID	HPLC_Water_00851
Pipette ID	P, SPE-1+ syringe
Reagent ID	10% NH4OH
Reagent Lot Number	10% NH4OH_00118
Solvent Lot #	Methanol_00190
Solvent Name	Methanol
SOP Number	DV-OP-0019
SPE Cartridge Type	STRATA-X-AW (8B S038 FCH)
Solid Phase Extraction Disk ID	S308-0079
First Start time	2.9.18@2059

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Batch Number: 404518 Batch Start Date: 02/09/18 20:54 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/09/18 23:23

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Batch Number: 404551 Batch Start Date: 02/11/18 11:55 Batch Analyst: Bourgery, David F

Batch Method: 3535 Batch End Date: 02/11/18 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00008	HFPO Spike 00004
MB 280-404551/1		3535, 8321A				250 mL	5 mL	0.1 mL	
LCS 280-404551/2		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LLCS 280-404551/3		3535, 8321A				250 mL	5 mL	0.1 mL	0.01 mL
LCSD 280-404551/4		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
280-106036-C-3	FAY-D-6476TABOR-W1-1-020118-D	3535, 8321A	T	305.8 g	29.9 g	275.9 mL	5 mL	0.1 mL	
280-106036-B-4	FAY-D-6644TABOR-W1-1-020118	3535, 8321A	T	293.7 g	28.8 g	264.9 mL	5 mL	0.1 mL	
280-106036-A-5	FAY-D-6644TABOR-W2-1-020118	3535, 8321A	T	322.8 g	29.5 g	293.3 mL	5 mL	0.1 mL	
280-106036-D-6	FAY-D-6808TABOR-W1-1-020118	3535, 8321A	T	304.2 g	30.3 g	273.9 mL	5 mL	0.1 mL	
280-106036-A-7	FAY-D-6838TABOR-W1-1-020118	3535, 8321A	T	302.1 g	30.6 g	271.5 mL	5 mL	0.1 mL	
280-106036-C-8	FAY-D-6838TABOR-W2-1-020118	3535, 8321A	T	311.0 g	29.8 g	281.2 mL	5 mL	0.1 mL	
280-106036-C-9	FAY-D-6858TABOR-W1-1-020118	3535, 8321A	T	332.2 g	30.8 g	301.4 mL	5 mL	0.1 mL	
280-106036-A-10	FAY-D-7047TABOR-W1-1-020118	3535, 8321A	T	306.5 g	29.6 g	276.9 mL	5 mL	0.1 mL	
280-106036-A-11	FAY-D-5049MATTH-W1-1-020118	3535, 8321A	T	317.9 g	30.2 g	287.7 mL	5 mL	0.1 mL	
280-106036-B-11 DU	FAY-D-5049MATTH-W1-1-020118	3535, 8321A	T	314.3 g	31.2 g	283.1 mL	5 mL	0.1 mL	
280-106036-C-11 MS	FAY-D-5049MATTH-W1-1-020118	3535, 8321A	T	307.4 g	31.0 g	276.4 mL	5 mL	0.1 mL	0.1 mL
280-106036-A-12	FAY-D-7646TABOR-W1-1-02018	3535, 8321A	T	312.0 g	29.6 g	282.4 mL	5 mL	0.1 mL	
280-106036-C-13	FAY-D-6731BUTLE-W1-1-020118	3535, 8321A	T	322.8 g	28.9 g	293.9 mL	5 mL	0.1 mL	
280-106036-B-14	FAY-D-6731BUTLE-W1-2-020118	3535, 8321A	T	320.8 g	31.4 g	289.4 mL	5 mL	0.1 mL	
280-106036-A-15	FAY-D-6815BUTLE-W1-1-020118	3535, 8321A	T	302.3 g	30.1 g	272.2 mL	5 mL	0.1 mL	
280-106036-C-16	FAY-D-6893BUTLE-W1-1-020118	3535, 8321A	T	317.1 g	29.6 g	287.5 mL	5 mL	0.1 mL	
280-106036-B-17	FAY-D-5018MRSHR-W1-1-020118	3535, 8321A	T	321.4 g	29.2 g	292.2 mL	5 mL	0.1 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Batch Number: 404551 Batch Start Date: 02/11/18 11:55 Batch Analyst: Bourgery, David F

Batch Method: 3535 Batch End Date: 02/11/18 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00008	HFPO Spike 00004
280-106036-A-18	FAY-D-5018MRSHR-W1-2-020118	3535, 8321A	T	323.5 g	30.2 g	293.3 mL	5 mL	0.1 mL	

Batch Notes	
Acid ID	2% Formic Aci_00141/142
Acid Name	2% Formic Acid
Balance ID	24350888
Batch Comment	Reviewer:DB
First End time	02/11/18 1600
H2O ID	HPLC_Water_00851
Pipette ID	M2, SPE-1+ syringe
Reagent ID	10% NH4OH
Reagent Lot Number	10% NH4OH_00118
Solvent Lot #	Methanol_00190
Solvent Name	Methanol
SOP Number	DV-OP-0019
SPE Cartridge Type	STRATA-X-AW (8B S038 FCH)
Solid Phase Extraction Disk ID	S308-0079
First Start time	02/11/18 1205

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Batch Number: 404556 Batch Start Date: 02/11/18 19:22 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/11/18 21:53

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00008	HFPO Spike 00004
MB 280-404556/1		3535, 8321A				250 mL	5 mL	0.1 mL	
LCS 280-404556/2		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LCSD 280-404556/3		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LLCS 280-404556/4		3535, 8321A				250 mL	5 mL	0.1 mL	0.01 mL
280-106036-C-19	FAY-D-5021MRSHR-W1-1-020118	3535, 8321A	T	326.1 g	29.5 g	296.6 mL	5 mL	0.1 mL	
280-106036-D-20	FAY-D-5021MRSHR-W1-2-020118	3535, 8321A	T	316.4 g	27.8 g	288.6 mL	5 mL	0.1 mL	
280-106036-D-21	FAY-D-4065SPNSH-W1-1-020118	3535, 8321A	T	326.4 g	28.1 g	298.3 mL	5 mL	0.1 mL	
280-106036-A-22	FAY-D-4065SPNSH-W1-2-020118	3535, 8321A	T	302.7 g	28.0 g	274.7 mL	5 mL	0.1 mL	

Batch Notes	
Acid ID	2% Formic Aci_00142
Acid Name	2% Formic Acid
Balance ID	24350888
Batch Comment	Reviewer:CDC
First End time	02/11/18 2019
H2O ID	HPLC_Water_00852
Pipette ID	P, SPE-1+ syringe
Reagent ID	10% NH4OH
Reagent Lot Number	10% NH4OH_00118
Solvent Lot #	Methanol_00190
Solvent Name	Methanol
SOP Number	DV-OP-0019
SPE Cartridge Type	STRATA-X-AW (8B S038 FCH)
Solid Phase Extraction Disk ID	S308-0079
First Start time	02/11/18 1933

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Batch Number: 404556 Batch Start Date: 02/11/18 19:22 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/11/18 21:53

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Batch Number: 404557 Batch Start Date: 02/11/18 19:44 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/11/18 21:56

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00008	HFPO Spike 00004
MB 280-404557/1		3535, 8321A				250 mL	5 mL	0.1 mL	
LCS 280-404557/2		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LCSD 280-404557/3		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LLCS 280-404557/4		3535, 8321A				250 mL	5 mL	0.1 mL	0.01 mL
280-106036-A-23	FAY-D-4057SPNSH-W1-1-020118	3535, 8321A	T	307.1 g	28.4 g	278.7 mL	5 mL	0.1 mL	
280-106036-A-24	FAY-D-7265NC87H-W1-1-020118	3535, 8321A	T	312.1 g	26.9 g	285.2 mL	5 mL	0.1 mL	
280-106036-C-25	FAY-D-7394NC87H-W1-1-020118	3535, 8321A	T	309.1 g	27.3 g	281.8 mL	5 mL	0.1 mL	
280-106036-A-26	FAY-D-6711CHKFT-W1-1-020118	3535, 8321A	T	317.7 g	27.6 g	290.1 mL	5 mL	0.1 mL	

Batch Notes	
Acid ID	2% Formic Aci_00142
Acid Name	2% Formic Acid
Balance ID	24350888
Batch Comment	Reviewer:CDC
First End time	2.11.18@2033
H2O ID	HPLC_Water_00852
Pipette ID	P, SPE-1+ syringe
Reagent ID	10% NH4OH
Reagent Lot Number	10% NH4OH_00118
Solvent Lot #	Methanol_00190
Solvent Name	Methanol
SOP Number	DV-OP-0019
SPE Cartridge Type	STRATA-X-AW (8B S038 FCH)
Solid Phase Extraction Disk ID	S308-0079
First Start time	2.11.18@1952

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Batch Number: 404557 Batch Start Date: 02/11/18 19:44 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/11/18 21:56

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Batch Number: 404582 Batch Start Date: 02/12/18 08:23 Batch Analyst: Atkinson, Hannah M

Batch Method: 3535 Batch End Date: 02/12/18 13:32

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00007	HFPO Spike 00004
MB 280-404582/1		3535, 8321A				250 mL	5 mL	0.1 mL	
LCS 280-404582/2		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LCSD 280-404582/3		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LLCS 280-404582/4		3535, 8321A				250 mL	5 mL	0.1 mL	0.01 mL
280-106036-C-39	FAY-D-3322DANDE-W1-1-020118D	3535, 8321A	T	279.5 g	28.3 g	251.2 mL	5 mL	0.1 mL	
280-106036-D-40	FAY-D-4057SPNSH-W1-2-020118	3535, 8321A	T	280.5 g	28.6 g	251.9 mL	5 mL	0.1 mL	
280-106036-D-41	FAY-D-5085MRSHR-W1-1-020118	3535, 8321A	T	279.4 g	28.5 g	250.9 mL	5 mL	0.1 mL	
280-106036-C-42	FAY-D-FB-020118	3535, 8321A	T	277.3 g	28.8 g	248.5 mL	5 mL	0.1 mL	
280-106036-B-43	FAY-D-FB-020118-A	3535, 8321A	T	275.8 g	29.0 g	246.8 mL	5 mL	0.1 mL	

Batch Notes	
Acid ID	2% Formic Aci_00142
Acid Name	2% Formic Acid
Balance ID	24350888
Batch Comment	Reviewer:jm
First End time	1032
H2O ID	HPLC_Water_00853
Pipette ID	m2, SPE-1+ syringe
Reagent ID	10% NH4OH
Reagent Lot Number	10% NH4OH_00118
Solvent Lot #	Methanol_00190
Solvent Name	Methanol
SOP Number	DV-OP-0019
SPE Cartridge Type	STRATA-X-AW (8B S038 FCH)
Solid Phase Extraction Disk ID	S308-0079
First Start time	940

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Batch Number: 404582 Batch Start Date: 02/12/18 08:23 Batch Analyst: Atkinson, Hannah M

Batch Method: 3535 Batch End Date: 02/12/18 13:32

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Batch Number: 404785 Batch Start Date: 02/13/18 11:30 Batch Analyst: Bourgery, David F

Batch Method: 3535 Batch End Date: 02/13/18 15:08

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00008	HFPO Spike 00004
MB 280-404785/1		3535, 8321A				250 mL	5 mL	0.1 mL	
LCS 280-404785/2		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LLCS 280-404785/3		3535, 8321A				250 mL	5 mL	0.1 mL	0.01 mL
LCSD 280-404785/4		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
280-106036-D-27	FAY-D-6416CHKFT-W1-1-020118	3535, 8321A	T	324.1 g	27.6 g	296.5 mL	5 mL	0.1 mL	
280-106036-A-28	FAY-D-6591BUTLE-W1-1-020118	3535, 8321A	T	321.6 g	28.3 g	293.3 mL	5 mL	0.1 mL	
280-106036-D-29	FAY-D-7149BUTLE-W1-1-020118	3535, 8321A	T	314.1 g	27.9 g	286.2 mL	5 mL	0.1 mL	
280-106036-A-30	FAY-D-7243BUTLE-W1-1-020118	3535, 8321A	T	316.2 g	28.4 g	287.8 mL	5 mL	0.1 mL	
280-106036-B-31	FAY-D-5049MATTH-W1-1-020118-D	3535, 8321A	T	303.5 g	28.7 g	274.8 mL	5 mL	0.1 mL	
280-106036-B-32	FAY-D-7609TABOR-W1-1-020118	3535, 8321A	T	307.7 g	30.5 g	277.2 mL	5 mL	0.1 mL	
280-106036-C-33	FAY-D-7741TABOR-W1-1-020118	3535, 8321A	T	302.9 g	30.6 g	272.3 mL	5 mL	0.1 mL	
280-106036-A-34	FAY-D-FB-020118-B	3535, 8321A	T	317.2 g	28.4 g	288.8 mL	5 mL	0.1 mL	
280-106036-A-35	FAY-D-47MAUDI-W1-1-020118	3535, 8321A	T	302. g	30.3 g	271.7 mL	5 mL	0.1 mL	
280-106036-C-36	FAY-D-47MAUDI-W1-2-020118	3535, 8321A	T	306. g	29.5 g	276.5 mL	5 mL	0.1 mL	
280-106036-A-37	FAY-D-1123NC20H-W1-1-020118	3535, 8321A	T	312. g	30.7 g	281.3 mL	5 mL	0.1 mL	
280-106036-A-38	FAY-D-3322DANDE-W1-1-020118	3535, 8321A	T	319. g	30.1 g	288.9 mL	5 mL	0.1 mL	
280-106036-B-38 DU	FAY-D-3322DANDE-W1-1-020118	3535, 8321A	T	332.7 g	29.4 g	303.3 mL	5 mL	0.1 mL	
280-106036-C-38 MS	FAY-D-3322DANDE-W1-1-020118	3535, 8321A	T	329.9 g	29.7 g	300.2 mL	5 mL	0.1 mL	0.1 mL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-106036-1

SDG No.:

Batch Number: 404785 Batch Start Date: 02/13/18 11:30 Batch Analyst: Bourgery, David F

Batch Method: 3535 Batch End Date: 02/13/18 15:08

Batch Notes	
Acid ID	2% Formic Aci_00142
Acid Name	2% Formic Acid
Balance ID	24350888
Batch Comment	Reviewer:AMB
First End time	02/13/18 1330
H2O ID	HPLC_Water_00853
Pipette ID	M2, SPE-1+ syringe
Reagent ID	10% NH4OH
Reagent Lot Number	10% NH4OH_00118
Solvent Lot #	Methanol_00190
Solvent Name	Methanol
SOP Number	DV-OP-0019
SPE Cartridge Type	STRATA-X-AW (8B S038 FCH)
Solid Phase Extraction Disk ID	S308-0079
First Start time	02/13/18 1145

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-0_00032

Description:	Blank	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	PFC_Dil_Solvent
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956304		
Comment:	ICB		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.60000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.60000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.6ug/ml		12/12/18				20.00000	uL

Prime
2/12/18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-1_00032

Description:	level1	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956305		
Comment:	level-1		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (I8)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	0.25000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				0.50000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-2_00033

Description:	level2	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4958307		
Comment:	level-2		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	0.50000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				1.00000	uL

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TestAmerica
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HFPO_CAL-3_00032

Reagent ID: HFPO_CAL-3_00032

Description:	level3	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956309		
Comment:	level-3		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	1.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				2.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-4_00032

Description:	level4	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4958319		
Comment:	level-4		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	2.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				4.00000	uL

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TestAmerica
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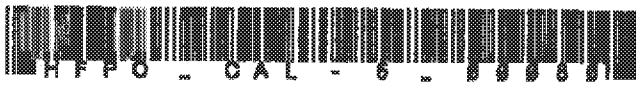
HFPO_CAL-5_00080



Reagent ID: HFPO_CAL-5_00080

Description:	level5	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956337		
Comment:	level-5		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	5.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				10.00000	uL

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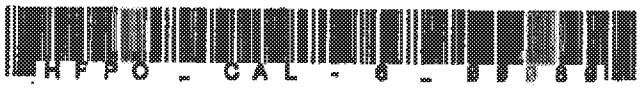
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



Reagent ID: HFPO_CAL-6_00080

Description:	level6	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018 -	Solvent Lot:	00016
Open Date:			
Container(s):	4956338		
Comment:	level-6		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				20.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-7_00032

Reagent ID: HFPO_CAL-7_00032

Description:	level7	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956339		
Comment:	level-7		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	25.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				50.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-8_00032

Description:	level8	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956340		
Comment:	level-8		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	50.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				100.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-9_00001

Description:	level9	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4656342		
Comment:	level-9		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	100.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				200.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_ICV_00034

Description:	ICV	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956341		
Comment:	ICV		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (I8)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO ICV_00001	11/03/2018	0.19800	ug/mL	1.95009	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO ICV_00001	ICV HFPO parent		11/03/18				10.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-0_00032

Description:	Blank	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	PFC_Dil_Solvent
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956304		
Comment:	ICB		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.60000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.60000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.6ug/ml		12/12/18				20.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-1_00032

Description:	level1	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956305		
Comment:	level-1		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2019	0.50000	ug/mL	0.25000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/19				0.50000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-2_00033

Description:	level2	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(e):	4958307		
Comment:	level-2		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	0.50000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				1.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-3_00032

Description:	level3	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	60:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956309		
Comment:	level-3		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	1.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				2.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-4_00032

Description:	level4	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956319		
Comment:	level-4		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	2.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				4.00000	uL

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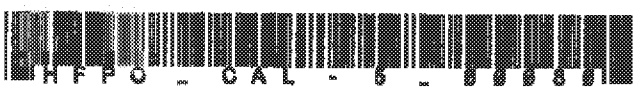
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



Reagent ID: HFPO_CAL-5_00080

Description:	level5	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956337		
Comment:	level-5		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	5.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				10.00000	uL

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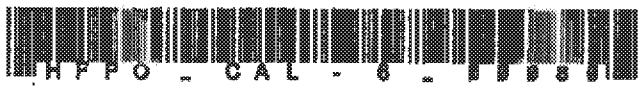
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



Reagent ID: HFPO_CAL-6_00060

Description:	level6	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	50:20 Methanol : H2O
Creation Date:	02/08/2018 -	Solvent Lot:	00016
Open Date:			
Container(s):	4956338		
Comment:	level-6		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				20.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-7_00032

Description:	level7	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956339		
Comment:	level-7		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	25.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				50.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-8_00032

Description:	level8	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956340		
Comment:	level-8		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	60.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				100.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-9_00001

Reagent ID: HFPO_CAL-9_00001

Description:	level9	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956342		
Comment:	level-9		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	100.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				200.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_ICV_00034

Description:	ICV	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4958341		
Comment:	ICV		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO ICV_00001	11/03/2018	0.19800	ug/mL	1.95009	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO ICV_00001	ICV HFPO parent		11/03/18				10.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO-CAL-0-00032

Reagent ID: HFPO_CAL-0_00032

Description:	Blank	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	PFC_Dill_Solvent
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956304		
Comment:	ICB		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL

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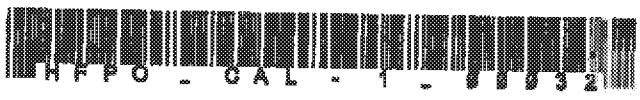
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



Reagent ID: HFPO_CAL-1_00032

Description:	level1	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	60:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956305		
Comment:	level-1		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (I8)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	0.25000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				0.50000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-2_00033

Reagent ID: HFPO_CAL-2_00033

Description:	level2	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956307		
Comment:	level-2		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	0.50000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				1.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-3_00032

Description:	level3	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956309		
Comment:	level-3		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (I8)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	1.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				2.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-4_00032

Description:	level4	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	50:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4958319		
Comment:	level-4		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	2.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				4.00000	uL

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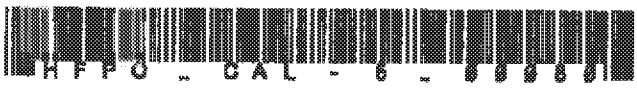
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



Reagent ID: HFPO_CAL-5_00080

Description:	level5	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956337		
Comment:	level-5		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S_00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S_00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	5.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S_00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				10.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-6_00080

Description:	level6	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018 -	Solvent Lot:	00016
Open Date:			
Container(s):	4956338		
Comment:	level-6		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (86)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				20.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-7_00032

Reagent ID: HFPO_CAL-7_00032

Description:	level7	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956339		
Comment:	level-7		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IB)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	25.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				50.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-8_00032

Description:	level8	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956340		
Comment:	level-8		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	50.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				100.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-9_00001

Description:	level9	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956342		
Comment:	level-9		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	100.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				200.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_ICV_00034

Description:	ICV	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956341		
Comment:	ICV		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO ICV_00001	11/03/2018	0.19800	ug/mL	1.95009	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO ICV_00001	ICV HFPO perserv		11/03/18				10.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-0_00032

Description:	Blank	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	PFC_Dill_Solvent
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956304		
Comment:	ICB		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00006	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00006	12/12/2018	0.50000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00006	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-1_00032

Description:	level1	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	60:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956305		
Comment:	level-1		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	0.25000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				0.50000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-2_00033

Description:	level2	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4958307		
Comment:	level-2		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	0.60000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				1.00000	uL

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Ophelia

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-3_00032

Description:	level3	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956309		
Comment:	level-3		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (I5)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	1.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				2.00000	uL

Thaveesh P.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-4_00032

Description:	level4	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956319		
Comment:	level-4		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (I8)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	2.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				4.00000	uL

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Thaveesin P. 02/8/18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-5_00080

Description:	level5	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4958337		
Comment:	level-5		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	5.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				10.00000	uL

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Thaveesh P
02/8/18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-6_00080

Reagent ID: HFPO_CAL-6_00080

Description:	level6	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956338		
Comment:	level-6		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				20.00000	uL

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Thaweesin P.
02/12/18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_CAL-7_00032

Description:	level7	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/06/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956339		
Comment:	level-7		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	25.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				50.00000	uL

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Thanesh P.
02/16/18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-8_00032

Reagent ID: HFPO_CAL-8_00032

Description:	level8	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956340		
Comment:	level-8		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	50.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				100.00000	uL

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Thaweesin P.
02/18/18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-9_00001

Reagent ID: HFPO_CAL-9_00001

Description:	level9	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956342		
Comment:	level-9		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	100.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				200.00000	uL

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Thaweesin P.
02/13/18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Reagent ID: HFPO_ICV_00034

Description:	ICV	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956341		
Comment:	ICV		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO ICV_00001	11/03/2018	0.19500	ug/mL	1.95000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO ICV_00001	ICV HFPO parent		11/03/18				10.00000	uL

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Thaveesri P.

Shipping and Receiving Documents

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: NV TD DB	Lab PM: Johnston, Michelle	Carrier Tracking No(s): Fed Ex	COC No:
Client Contact: Mr. Michael Aucoin	Phone: 704-600-5746	E-Mail: michelle.johnston@testamericainc.com		Page: Page 1 of 2
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:			
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5873	PO #: LBIO-67048/84201000-2231QS1000			
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-2018 Residential Sampling	Project #: 28016904			
Site: Chemours	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code	Total Number of Fluorinated Analytes (N&O only)	Perfluorinated Analytes (N&O only)	HFPO-DA-LC/MS/MS	Total Number of containers	Special Instructions/Note:
FAY-D-637TABOR-WI-1-020118	02 01 18	0847	G	W		N	N	X		Hold any Remaining Volume as Returns
FAY-D-647TABOR-WI-1-020118	02 01 18	0922	G	W		N	N	X		
FAY-D-647TABOR-WI-1-020118D	02 01 18	0922	G	W		N	N	X		
FAY-D-647TABOR-WI-1-020118REP	02 01 18	0927	G	W		N	N	X		
FAY-D-647TABOR-WI-1-020118-MS	02 01 18	0922	G	W		N	N	X		
FAY-D-664TABOR-WI-1-020118	02 01 18	0956	G	W		N	N	X		
FAY-D-664TABOR-WI-2-020118	02 01 18	0957	G	W		N	N	X		
FAY-D-658TABOR-WI-1-020118	02 01 18	1045	G	W		N	N	X		
FAY-D-683STABOR-WI-1-020118	02 01 18	1103	G	W		N	N	X		
FAY-D-683STABOR-WI-2-020118	02 01 18	1164	G	W		N	N	X		
FAY-D-665STABOR-WI-1-020118	02 01 18	1113	G	W		N	N	X		

280-106036 Chain of Custody

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					02/01/18 /1200	Parsons
	Relinquished by:	Date/Time: 02/01/18 /1300	Company Parsons	Received by:	Date/Time: 2-2-18 0945	Company TA-Den
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.7, 0.8, 0.5, 1.5 to 0.1 IR#5 transferred by JT 2-2-18
0.4 to 0.1 IR#5 transferred by DB 2/2/18

ED_002011_00000028-00703

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: NV TD DB	Lab PM: Johnston, Michelle	Carrier Tracking No(s): Fed Ex	COC No:
Client Contact: Mr. Michael Aucoin	Phone: 704-600-5746	E-Mail: michelle.johnston@testamericainc.com		Page: Page 2 of 2
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:			
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5873	PO #: LBIO-67048/84201000-2231QS1000			
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-2018 Residential Sampling	Project #: 28016904			
Site: Chemours	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	HFPO-DA- LC/MS/MS	Total Number of Containers	Special Instructions/Note:
			Preservation Code:						
FAY-D-7067TABOR-WI-1-020118	02 01 18	1151	G	W	N	N	X		Hold any Remaining Volume as Returns
FAY-D-5049TABORMATTH-WI-1-020118	02 01 18	1348	G	W	N	N	X		
~~FAY-D-5049MATTH~~ NV 02/01/18									
FAY-D-5049MATTH-WI-1-020118MS	020118	1348	G	W	N	N	X		
FAY-D-5049MATTH-WI-1-020118-Rep		1348	G	W	N	N	X		
FAY-D-7046TABOR-WI-020118		1455	G	W	N	N	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				02/01/18	Parsons
Relinquished by:	Date/Time: 02/01/18 1300	Company Parsons	Received by:	Date/Time: 02/02/18 0945	Company TADEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: RH, LP	Lab PM: Johnston, Michelle	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Michael Aucoin	Phone: 704-600-5746	E-Mail: michelle.johnston@testamericainc.com		Page: Page 1 of 1
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:			
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5873	PO #: LBIO-67048/84201000-2231QS1000			
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-2018 Residential Sampling	Project #: 28016904			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	HFPO-DA - LC/MS/MS	Total Number of containers	Special Instructions/Note:
FAY-D-6731BUTLE-W1-1-020118	2/1/18	0824	G	W	N	N	4		Hold all remaining volumes as retains.
FAY-D-6731BUTLE-W1-2-020118	2/1/18	0826	G	W	N	N	4		
FAY-D-6815BUTLE-W1-1-020118	2/1/18	0853	G	W	N	N	4		
FAY-D-6893BUTLE-W1-1-020118	2/1/18	0944	G	W	N	N	4		
FAY-D-5018MRSHR-W1-1-020118	2/1/18	1113	G	W	N	N	4		
FAY-D-5018MRSHR-W1-2-020118	2/1/18	1113	G	W	N	N	4		
FAY-D-5021MRSHR-W1-1-020118	2/1/18	1144	G	W	N	N	4		
FAY-D-5021MRSHR-W1-2-020118	2/1/18	1148	G	W	N	N	4		
FAY-D-4065SPNSH-W1-1-020118	2/1/18	1351	G	W	N	N	4		
FAY-D-4065SPNSH-W1-2-020118	2/1/18	1355	G	W	N	N	4		
FAY-D-4059SPNSH-W1-1-020118	2/1/18	1434	G	W	N	N	4		

Preservation Code

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 2/1/18 1800	Company: Parsons	Received by: [signature]	Date/Time: 2-2-18 0945	Company: TAD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Albert McNab, Chris Murphy	Lab PM: Johnston, Michelle	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Michael Aucoin	Phone: 704-600-5746	E-Mail: michelle.johnston@testamericainc.com		Page: Page ____ of ____
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:			
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5873	PO #: LBIO-67048/84201000-2231QS1000			
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-2018 Residential Sampling	Project #: 28016904			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	HFPO-DA- LC/MS/MS	Total Number of containers	Special Instructions/Note:
FAY-D-7265NC87H-W1-1-020118	020118	0926	G	W	X	X	N		Hold All Volumes
FAY-D-7394NC87H-W1-1-020118	020118	1042	G	W	X	X	N		As Ra[illegible]
FAY-D-6711CHKFT-W1-1-020118	020118	1152	G	W	X	X	N		
FAY-D-6416CHKFT-W1-1-020118	020118	1204	G	W	X	X	N		
FAY-D-6591BUTLE-W1-1-020118	020118	1438	G	W	X	X	N		
FAY-D-7149BUTLE-W1-1-020118	020118	1503	G	W	X	X	N		
FAY-D-7243BUTLE-W1-1-020118	020118	1711	G	W	X	X	N		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	02.01.18 / 1750		[signature]	02-02-18 0945	TAD

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: B.Painter, T.Perritt	Lab PM: Johnston, Michelle	Carrier Tracking No(s): Fed Ex	COC No:
Client Contact: Mr. Michael Aucoin	Phone: 704-600-5746	E-Mail: michelle.johnston@testamericainc.com		Page: Page ____ of ____
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:			
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5873	PO #: LBIO-67048/84201000-2231QS1000			
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-Stormwater Sampling 11/17	Project #: 28017573			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	LC/MS/MS - HFPO-DA	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FAY-D-47MAUDI-WI-1-020118	02/01/18	0900	G	W	N	N	X	4	Hold All Volumes as Retains
FAY-D-47MAUDI-WI-2-020118	02/01/18	0900	G	W	N	N	X	4	
FAY-D-1123NC20H-WI-1-020118	02/01/18	0943	G	W	N	N	X	4	
FAY-D-3322DANDE-WI-1-020118	02/01/18	1630	G	W	N	N	X	4	
FAY-D-3322DANDE-WI-1-020118 MS	02/01/18	1630	G	W	N	N	X	4	
FAY-D-3322DANDE-WI-1-020118 REP	02/01/18	1630	G	W	N	N	X	4	
FAY-D-3322DANDE-WI-1-020118 D	02/01/18	1630	G	W	N	N	X	4	
FAY-D-4059SPNSH-WI-2-020118	02/01/18	1435	G	W	N	N	X	4	
FAY-D-5085MRSHR-WI-1-020118	02/01/18	1710	G	W	N	N	X	4	
FAY-D-FB-020118	02/01/18	0755	G	W	N	N	X	4	
FAY-D-FB-020118-A	02/01/18	1300	G	W	N	N	X	4	

Page 1 of 1

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date: 11/15/17	Time: 1200		Method of Shipment:	
Relinquished by: B. Painter	Date/Time: 02/01/18 1731	Company: Parsons	Received by:	Date/Time: 2-2-18 0945	Company: TA-Den
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.7, 0.8, 0.5, 1.5 + 0.1 IR#5 transferred by JT 2-2-18
0.4 and IR#5 transferred by DB 2/2/18

ED_002011_00000028-00707

230-106036 Revised COC received 2/20/18

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Johnston, Michelle	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Michael Aucoin	Phone:	E-Mail: michelle.johnston@testamericainc.com		Page: Page ___ of ___
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:			
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5873	PO #: LBIO-67048/84201000-2231QS1000			
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-2018 Residential Sampling	Project #: 28016904			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA
M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wewater, Sesolid, Owaste/oil, BTEX/Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/REP (Yes or No)	HFPD-DA-LC/MS/MS	Total Number of Containers	Special Instructions/Note:
			Preservation Code:		X	X	N	X	
TP 02-20-18 FAY-D-6416CHKFT-W1-1-020118									

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ___ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

280-106036 Revised COC received 2/9/18 -DR

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: KW TD DB	Lab PM: Johnston, Michelle	Carrier Tracking No(s): FedEx	COC No:
Client Contact: Mr. Michael Auccin	Phone: 781-600-7518	E-Mail: michelle.johnston@testamericainc.com		Page: Page 2 of 2
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5873	PO #: LBIO-67048/84201000-2231QS1000			
Email: michael.auccin@aecom.com	WO #:			Other:
Project Name: FAY-2018 Residential Sampling	Project #: 28016904			
Site: Chemours	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	HFOLCV4-LC/MS/MS	Total Number of containers	Special Instructions/Note:
	Preservation Code:				X	X	X	X	
FAY-D-7HITABOR-WI-1-020118	02.01.18	1151	G	W	N	N	X		Hold any Perfluoro Volume on Perfluoros
FAY-D-[illegible]	02.01.18	1218	G	W	N	N	X		
FAY-D-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
FAY-D-[illegible]	02.01.18	[illegible]	G	W	N	N	X		
FAY-D-[illegible]	02.01.18	[illegible]	G	W	N	N	X		
FAY-D-[illegible]	02.01.18	[illegible]	G	W	N	N	X		
FAY-D-5[illegible]MATTN-WI-1-020118-D	02.01.18	1348	G	W	N	N	X		Added 2.8.18/RR
FAY-D-7[illegible]TABOR-WI-1-020118	02.01.18	1441	G	W	N	N	X		Added 2.8.18/RR
FAY-D-77HITABOR-WI-1-020118	02.01.18	1508	G	W	N	N	X		Added 2.8.18/RR
FAY-D-FB-020118-B	02.01.18	0700	G	W	N	N	X		Added 2.8.18/RR

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time:	Company	Received by: [signature] Date/Time: 2/9/18 Company: Pace
Relinquished by: [signature]	Date/Time: 2/9/18 1300	Company: Pace	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

ED_002011_00000028-00709

Revised COC received 3/26/18 280-106036

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: NV TD DG	Lab PM: Johnston, Michelle	Carrier Tracking No(s): FedEx	COC No:
Client Contact: Mr. Michael Aucoin	Phone: 732-602-7745	E-Mail: michelle.johnston@testamericainc.com		Page: Page 2 of 3
Company: The Chemours Company FC, LLC			Analysis Requested	Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5873	PO #: LBIO-67048/64201000-2231QS1000			Other:
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-2018 Residential Sampling	Project #: 25016904			
Site: Chemours	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	HFPO-DA-LC/MS/MS	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FAY-D-7HITABOR-WI-1-020118	02.01.18	1151	G	W	N	N	X		Hold dry Denver 2 Volume 05 Dan 05
FAY-D-[illegible]	02.01.18	1248	G	W	N	N	X		
FAY-D-[illegible]									
FAY-D-[illegible]	02.01.18	[illegible]	G	W	N	N	X		
FAY-D-[illegible]	02.01.18 RR 02.09.18	[illegible]	G	W	N	N	X		
FAY-D-7HITABOR-WI-1-020118	02.01.18	[illegible]	G	W	N	N	X		
FAY-D-5TH MATH-WI-1-020118-D	02.01.18 RR 02.09.18 02.01.18	1348	G	W	N	N	X		Added 2.8.18/RR
FAY-D-7TH ITABOR-WI-1-020118	02.01.18	1441	G	W	N	N	X		Added 2.8.18/RR
FAY-D-7TH ITABOR-WI-1-020118	02.01.18	1508	G	W	N	N	X		Added 2.8.18/RR
FAY-D-FB-020118-B	02.01.18	0700	G	W	N	N	X		Added 2.8.18/RR

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 02.01.18	Company Pace
Relinquished by:	Date/Time: 02.01.18 1200	Company Pace	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

ED_002011_00000028-00710

Login Sample Receipt Checklist

Client: Chemours Company FC, LLC The

Job Number: 280-106036-1

Login Number: 106036
List Number: 1
Creator: True, Joshua A

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	